Addressing the Challenges of a Changing IT Workforce

The information technology industry is continuously buffeted by new challenges, creating a host of opportunities for computer and information science programs across the country.

More people are employed in IT today than during the dot-com boom of the 1990s, and demand shows no signs of slowing down. At the same time, however, the level of skill required by the industries that hire IT workers continues to rise, making advanced degrees more popular and necessary than ever before. Globalization is accelerating demand for advanced IT educations, with the need for IT workers in many countries outpacing the capabilities of their educational systems to train them.

CCIS is responding with a dynamic curriculum that offers advanced, specialized programs for students across the educational spectrum. The graduate program is growing steadily, and is increasingly populated by international students. Some 80 percent of master’s degree students and 60 percent of doctoral students at CCIS are international.

“There is a tremendous interest in computer science in India and China,” says CCIS Dean Larry Finkelstein. “Students who get bachelor’s degrees there hit a technical ceiling after a few years in the workplace. Graduate education is less available than it is in the United States.”

These students are drawn to Northeastern specifically, Finkelstein says, because of the combination of advanced education and co-op work experience. “Having work experience in the U.S. furthers their careers,” he says. “It is a very desirable combination.”

Students are particularly interested in co-ops at multinational companies that have offices in their home countries. Goldman Sachs, for instance, hired 11 graduate co-op students last year. EMC was another significant

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Letter from the Dean

As demand for skilled IT workers continues to increase more quickly than supply, students from around the globe are looking to US universities to provide the advanced education they need to fill the void. Our cover story in this issue explains some of the many reasons Northeastern is the university of choice for a significant share of these students.

Our strong co-op programs, outstanding faculty, and ability to merge computer and information science with content expertise make us an attractive destination to students who want a practical knowledge foundation along with solid work experience. CCIS’s appeal to international graduate students is enabling curriculum enhancements throughout our degree programs.

Of course, the graduate program is not the only area that is striving to attract new students. Our Bootstrap program, which introduces middle school students to computer science while providing undergraduates with mentoring opportunities, is poised to become a national model. On page 5, you can learn about a $150,000 grant from Microsoft that will enable its continued expansion.

Two articles in this issue highlight our quest to provide content expertise to our students. First is a profile of alumna Natasha Fridman Noy, PhD’98, now a senior research scientist in medical informatics at Stanford University. Natasha was one of the first students to study the development of medical ontologies when she completed her dissertation with Associate Professor Carole Hafner. Her work helped establish this new branch of information science, now a significant research area at CCIS.

In a related advance, the college has opened its doors to the first class of the graduate degree in health informatics. The program, described on page 6, will prepare students to integrate information technology with health care delivery. The use of IT in health care is in its earliest stages, and promises to increase rapidly in the coming years. CCIS intends to be a leader in this important field.

These are fascinating times for computer and information sciences, with global growth and unprecedented opportunities for integrating computing with other disciplines. At CCIS, an outstanding student body guided by expert faculty is leading the way to success in our ever-evolving field.

Larry Finkelstein
Dean

Verification Expert Joins CCIS from Georgia Tech

Associate Professor Panagiotis (Pete) Manolios joined the Northeastern faculty this year from the College of Computing at the Georgia Institute of Technology.

Manolios first visited the Northeastern campus at the invitation of Trustee Professor Mattias Felleisen. “It was clear to me right away that there were multiple high-powered, world-class research groups here,” he says. “I was impressed by the direction the college was moving in.”

Manolios’ primary research interest is the verification of computing systems. He develops algorithms, methodologies, and concepts to formally and mechanically reason about systems, and has devoted much of his research to applications and to building and experimentally validating tools.

“Small bugs in programs can have huge consequences,” he says. “A missile defense malfunction or a machine emitting too much radiation can kill people.” Even if bugs aren’t life-threatening, they can be financially devastating. A bug in an Intel chip several years ago cost the company half a billion dollars to recall and correct.

“It’s really important that undergraduates leave school knowing how to build reliable systems,” he says. “I’m happy to be working with a group that has done as much in pedagogy as they have here.”

Associate Professor Pete Manolios

He says formal methods can be used to revolutionize the design and implementation of highly reliable, robust, secure, and scalable systems in important application areas, ranging from large-scale component-based software systems to aerospace systems to computational biology to public health. He has received grant support from the National Aeronautics and Space Administration (NASA) and Boeing, among others.

Manolios is also interested in computing education, particularly giving students the tools they need to reason about programming from a mathematical foundation. He plans to co-teach a course on the subject with Assistant Professor Riccardo Pucella next year.

“As software systems gain in size and complexity, the need to reason about them increases,” he says. “In our new course, we will use formal methods to teach novices how to build reliable systems.”

Associate Professor Panagiotis (Pete) Manolios

“Verification Expert Joins CCIS from Georgia Tech”
Professor Gene Cooperman and graduate student Dan Kunkle have been showered with international media attention since announcing in May that they could solve any configuration of a Rubik’s Cube in 26 moves—a new record.

News outlets ranging from Discover magazine to the BBC to the Budapest (Hungary) Times (the Rubik’s cube was invented by a Hungarian professor of architecture) have covered the story, giving CCIS an extraordinary boost in visibility.

“The Rubik’s Cube is a testing ground for problems of search and enumeration,” says Cooperman. “Search and enumeration is a large research area encompassing many researchers working in different disciplines—from artificial intelligence to operations research. The Rubik’s Cube allows researchers from different disciplines to compare their methods on a single, well-known problem.”

Cooperman and Kunkle set their new record by using two primary techniques: They used 7 terabytes of distributed disk as an extension to RAM, in order to hold some large tables and developed a new, “faster” way of computing moves, and even whole groups of moves, by using mathematical group theory.

Cooperman and Kunkle put all of the configurations of a Rubik’s Cube in a family of sets of configurations (called a family of cosets in mathematical group theory). They then looked at the result of applying a single move to all of the configurations of a coset at once. They simulated this on a computer at a rate of 10,000,000 times per second, using a new technique.

In May 1997, UCLA computer science Professor Richard Korf announced that he had found the first optimal solutions to Rubik’s Cube. His research showed that the median optimal solution was 18 moves, and researchers believe any cube can be solved in no more than 20 moves. However, Korf was unable to prove this, and no one has ever been able to prove that it could be solved in less than 27 moves.

“Our program first does a precomputation using the seven terabytes of disk space in order to produce a table of less than one terabyte,” says Kunkle. “Our program then uses the table to very quickly—in about a second—find a solution in 26 moves or less for any state of Rubik’s Cube.

Cooperman and Kunkle used computers at Teragrid (teragrid.org) and at Northeastern, part of the first node from a $200,000 grant Cooperman and colleagues received from the National Science Foundation in 2006 to obtain 20 terabytes of storage.

They presented their result July 29 at the International Symposium on Symbolic and Algebraic Computation in Waterloo, Ontario.
Faculty Members Honored by ACM and IEEE

Two CCIS researchers have received major professional association awards in recent months, honoring their career-long contributions to their disciplines. Trustee Professor Matthias Felleisen has been selected as an Association for Computing Machinery (ACM) Fellow and Professor Betty Salzberg has been selected as an Institute of Electrical and Electronics Engineers (IEEE) Fellow.

“We’re extremely proud of the accomplishments of these two distinguished faculty members,” says CCIS Dean Larry Finkelstein. “They are two of the brightest stars in the growing constellation of talented researchers attracted to Northeastern.”

Trustee Professor and ACM Fellow Matthias Felleisen

Felleisen was cited by the ACM for his contributions to programming languages and development environments. He was one of only 41 researchers nationally to be inducted as an ACM Fellow this year.

Over the last two decades, Felleisen and his students have laid some of the core foundations on which modern programming-language theory and practice has been constructed.

Professor Betty Salzberg

Salzberg was elected as an IEEE Fellow for her contributions to the database field including access methods, online reorganization methods, and robust application techniques in computing. Much of this work was in collaboration with David Lomet of the Microsoft Corporation and with CCIS graduate students. She was one of 268 inductees internationally.

Salzberg’s spatial indexing (called the hB-tree or Holey Brick tree) clusters data in several dimensions so that nearby data is stored on the same disk page even when there are insertions and deletions made in the collection. Her temporal indexing method (the Time-split B-tree) is an index that is optimized to answer the query: “show me the state of the data collection at a given past time.” This work was in collaboration with Lomet.

Salzberg’s work on online reorganization concerns merging B-trees and consolidation of B-trees while work is ongoing. B-trees are the ubiquitous index in all major DBMS products.

Most recently, Salzberg has been working with Rui Wang, PhD ’06 and Lomet to make an important part of database applications recoverable.
Bootstrap Program Gets a $150K Boost from Microsoft

A $150,000 grant from Microsoft will enable CCIS to expand its successful Bootstrap program for urban middle school students, creating a national model for computer science education.

Bootstrap was developed by Emmanuel Schanzer, now a visiting scholar at CCIS. Based on Trustee Professor Mattias Felleisen’s highly regarded TeachScheme! curriculum for high school and college students, it introduces eighth graders to entry-level programming.

“The idea is to make programming fun, but also challenging enough that the students get a sense of mastery,” Schanzer says. “It has to be fun enough that they want to do it on their own, but challenging enough that they get a high from doing it.”

The goal of the course is to teach students to program a basic game, then customize it in whatever way pleases them. One 11-year-old girl in the pilot class developed a basketball game, and took the extra step of adding names and colors to the players’ jerseys.

“That was an extremely challenging thing to do,” Schanzer says. “She wouldn’t have done it if it wasn’t for the creative aspect that made it fun.”

Bootstrap was initially offered in 2005 as an intensive one-week program through Northeastern’s Compass Computer Camps, taught by undergraduates with support from Schanzer. A year later, Schanzer developed a “lite” version of the curriculum that was offered as an after-school program through Citizen Schools, a national network of learning programs for urban middle school students. Bootstrap was piloted at two Boston-area schools. The grant will allow it to expand to 10 sites in the Citizen Schools network.

Another component of the grant will fund a graduate student who will work with Professor Will Clinger to move the curriculum to the .net platform, enabling students to run their programs online. Clinger is also working on another Microsoft grant to port the entire Scheme programming language to .net.

About 100 middle school students have completed the Bootstrap program to date, and the earliest ones are now in high school, and old enough to come back as teaching assistants.

“One really wonderful result of this is the high percentage of students who want to come back to teach,” Schanzer says. “Eighteen students took the first course, and three want to teach. They really do seem more enthusiastic about programming.”

Students show off their certificates for completing the Bootstrap program. From left: Rasool Atkins, Ergy Lormine, Gerardo Arevalo, De’na Johnson, Jerry Lherrison, and Cerica Horton.

Middle school student Duwan Grant at his computer at Compass Computer Camp.
Hochberg has been a course director at Tufts Medical School for the past six years and speaks and consults nationally in the areas of health care data analysis, health care management and quality improvement. He is a former medical director at Harvard Pilgrim Healthcare, former vice president of product management at McKesson Corporation and a former board member of Massachusetts Health Quality Partners.

New Graduate Degree in Health Informatics Merges Computing with Health Care Expertise

A new graduate program in health informatics launched this fall with 38 students, many of whom already have advanced degrees in medicine, nursing, and pharmacy.

“There’s a significant demand for people who are skilled in both computing and health care delivery,” says Stanley Hochberg, assistant clinical professor and director of the program. “We conducted focus groups with Massachusetts health care leaders in 2005, and learned that there was a pressing need for graduate education in this area.”

The program is a joint offering of CCIS and Bouvé College of Health Sciences, with about half the courses in IT and half in health care. Students may begin with introductory computing or health care courses, depending on their educational background. The program will include labs, projects, and internships with health care organizations in Greater Boston.

Virtually all of the students in the program are working full-time in health care or IT, Hochberg says. Courses are offered in late afternoons and evenings to accommodate work schedules.

The goal of the program is to give students the skills to lead teams that design, develop, and support health care IT systems. Examples could include online prescribing systems that notify doctors of problems with allergies or dosage amounts, handheld devices that deliver medical records to doctors in seconds, or digital recordkeeping systems that allow health care facilities to share patient data securely.

“Well-designed and well-implemented technologies are urgently needed,” Hochberg says. “Our program will work closely with Boston’s health care community to ensure we are giving professionals the training they need. Creating effective tools requires a deep understanding of both IT and the health care system.”

Senior leaders from Partners Healthcare, Children’s Hospital Boston and the Caritas Christi Healthcare System are teaching in the program this fall.

Stanley Hochberg, MD, assistant clinical professor

“There’s a significant demand for people who are skilled in both computing and healthcare delivery...”
Natasha Noy, PhD ’98, was among the first generation of computer science researchers to study ontologies when she completed her dissertation on ontology design for experimental sciences and use of ontologies in knowledge-based information retrieval.

Today, she is a senior research scientist at the Stanford Center for Biomedical Research and in the National Center for Biomedical Ontologies (NCBO) at Stanford University, where she works on Protégé, an ontology design framework with 80,000 users worldwide. She is a thought-leader in the development of the Semantic Web, which will enable computers to do much of the searching and information retrieval that now requires human thought.

“The Web today is for human consumption,” Noy says. “A human will probably always need to be in the loop, but it would be nice if computers could do more of the work for us.”

Ontologies are used to structure information and make it searchable. They can be applied to everything from products on a consumer Web site to records in a medical database. While they were once the exclusive domain of computer science researchers, they are now being created by people in the domains that use them, whether that means business people, medical professionals, or artists.

“Each person sees the world and describes the world differently,” Noy says. “So ontologies have very different structures depending on who creates and uses them.”

One of Noy’s biggest claims to fame in the world of ontologies and the Semantic Web is her development of Ontology Development 101, a tutorial that has become the de facto guide for anyone who needs to develop an ontology or understand the field.

She is also well known for her work in ontology education through professional conferences and workshops. “Natasha has played an incredible leadership role in the medical ontology community by organizing workshops,” says Professor Carole Hafner, Noy’s PhD advisor. “Her work has touched many, many people.”

Among the conferences she has cochaired is the 2007 International Semantic Web conference, the main research conference for the Semantic Web community. She also co-organized a number of workshops at major conferences on such topics as semantic integration, collaborative knowledge constructions, and ontology management.

“We’re working on how to facilitate, how to reach a consensus, or, if no consensus can be reached, how to document that.”

Her current work at NCBO (one of the National Institutes of Health’s National Centers for Biomedical Computing) will enable users to discuss and evaluate ontologies collaboratively.

“An ontology is an artifact that is almost as hard to rate as a book.” Noy says. “You can say if it is logically consistent, but you cannot have computable means of determining whether or not a particular ontology is good for your task. The most helpful information is whether the ontology was used successfully by someone else for a similar task.

The NCBO repository will provide a forum for users to rate and critique various ontologies and to provide input into what would improve their usefulness.

“We’re working on how to facilitate, how to reach a consensus,” she says. “Or, if no consensus can be reached, how to document that.”
The annual CCIS Distinguished Speaker Series is gearing up for an outstanding year, with an internationally recognized roster of experts in fields ranging from voting security to robotics.

“We’re very pleased to be able to bring such a renowned group of speakers to campus,” says Professor Ravi Sundaram, who is organizing the series. “We hope they will be an inspiration to the students.”

Dates and times will be posted as the academic year progresses. Please visit www.ccs.neu.edu for the latest information.

This year’s speakers include:

**Edward W. Felten**
Edward W. Felten is a professor of computer science and public affairs at Princeton University. His research on computer security and privacy and technology law and policy has been covered extensively in the popular press. His weblog, at www.freedom-to-tinker.com, is widely read. Felten was a lead witness for the Department of Justice in the Microsoft antitrust case. He has testified before the Senate Commerce Committee on digital television technology and regulation, and before the House Administration Committee on electronic voting. In 2004, Scientific American magazine named him one of 50 science and technology leaders worldwide.

**Helen Greiner**
Helen Greiner is cofounder and chairman of iRobot, the leading producer of robots for the industrial, consumer and military markets. She was named by Harvard University’s Kennedy School of Government and US News and World Report as one of America’s Best Leaders, and received the Pioneer Award from the Association for Unmanned Vehicle Systems International (AUVSI). Technology Review magazine named her an “Innovator for the Next Century.” Her robotic technology experience includes work at NASA’s Jet Propulsion Laboratory and MIT’s Artificial Intelligence Laboratory. She is a director of the National Defense Industrial Association (NDIA).

**David MacKay**
David MacKay is a professor in the department of physics at Cambridge University. His interests include machine learning, reliable computation with unreliable hardware, design and decoding of error correcting codes, and communication systems for the disabled. His contributions include the development of Bayesian methods for neural networks, the rediscovery (with Radford M. Neal) of low-density parity-check codes, and the invention of Dasher, a software application for communication. His textbook, *Information Theory, Inference, and Learning Algorithms*, was published in 2003. He is currently writing a second book, *Sustainable Energy—without the hot air* (www.withouthotair.com).

**J. Strother Moore**
J. Strother Moore holds the Admiral B.R. Inman Centennial Chair in Computing Theory at the University of Texas at Austin and is chair of the department. With Robert Boyer, he is coauthor of the Boyer-Moore theorem prover and the Boyer-Moore fast string searching algorithm. With Matt Kaufmann he is coauthor of the ACL2 theorem prover. Moore was a cofounder and chief scientist at Computational Logic. In 2005, he, Boyer, and Kaufmann won the ACM Software System Award. Moore is a Fellow of the American Association for Artificial Intelligence and an ACM Fellow.

**Elizabeth Mynatt**
Elizabeth Mynatt is an associate professor in the College of Computing at the Georgia Institute of Technology. She directs the research program in Everyday Computing—examining the human-computer interface implications of having computation continuously present in everyday life. Themes in her research include supporting informal collaboration and awareness in office environments, enabling creative work and visual communication, and augmenting social processes for managing personal information. Mynatt is a principal researcher in the Aware Home Research Initiative, investigating the design of future home technologies, especially those that enable older adults to continue living independently.

**Michael Stonebraker**
Michael Stonebraker has been a pioneer of database research and technology for more than a quarter century. He was the main architect of the INGRES relational DBMS, the object-relational DBMS, POSTGRES, and the federated data system, Mariposa. Stonebraker has been recognized by *Computer Reseller News* as one of the top five software developers of the century. Forbes magazine named him one of the eight innovators driving the Silicon Valley wealth explosion in 1998. He was elected to the National Academy of Engineering in 1998 and is presently an adjunct professor of computer science at MIT.
Welcome to the first edition of CCIS Class Notes. We hope you will enjoy reading about what your former classmates are doing. Even more importantly, we hope you will take a moment to drop us a line and tell us what you’ve been up to in your career and personal life. Please send an e-mail to Aileen Kent-Yates, External and Employer Relations, at a.yates@neu.edu.

1980s

Melinda Kramer, ’83, is the chief technology officer for a fast-growing investment management firm in Chicago. When not working, she spends time with her husband and two young boys. She manages the publication of the boys’ elementary school yearbook and co-chairs the Midwest chapter of Hedge Funds Care, a charity organization dedicated to the prevention and treatment of child abuse.

Catherine Bilotta-Lucia, ’86, is a 19-year employee of Raytheon and is currently director of the Enterprise Solutions Center, reporting to Raytheon’s CIO. Her team, based in Garland, Texas, and Billerica, Mass., deploys enterprise-wide application solutions across Raytheon. She lives in Andover, Mass., with her husband and two children and is an enthusiastic member of Red Sox Nation!

Chris Martha, ’86, is director of product management and strategy at TIBCO Software in Palo Alto, Calif. He has been at TIBCO for 14 years and gets to work on fun projects with companies like Yahoo, eBay, Cisco and Google. He lives in Palo Alto with his wife, Joyce, and two children Katia (6) and Akira (4). Chris is a certified instructor in ChiRunning (www.chirunning.com). ChiRunning helped him run the 2007 Boston Marathon pain free.

Chetan Mepani, ’86, is a senior analyst at Fidelity Investments. Organizations he supports include the Pine Street Inn, Walk for Hunger, March of Dimes, and the CCIS alumni network. He is married with two children, Amol and Anokhee, and lives in Westwood, Mass.

1990s

George D. Gal, ’99, founded an information security consulting firm, Virtual Security Research, in 2004. George leads the firm’s application security practice. He and his wife, Cindy Gal, Bouvé ’00, reside in Winchester, Mass. George is also currently enrolled in the CCIS master’s degree program and is expected to graduate in spring 2008.

Prashanth Nair, ’99, is a senior team leader at The MathWorks, doing GUI test automation. The MathWorks is known for its two flagship products, MATLAB and Simulink. Prashanth and his wife, Leena, live in Natick, Mass.

Josh Seadia, ’99, is an investments representative for Fidelity Investments, helping clients with their financial goals. He lives in Brookline, Mass., and enjoys playing acoustic guitar and learning new foreign languages.

2000s

Tony Iosifidis, ’00, is a systems analyst at Upromise, a Newton, Mass., company that helps families save for college. He acts as a liaison between the business side and the technology side. In January, he completed his MBA. While at NU he was part of the NU Judo Club, and continues to be active in the club by keeping students in touch with alumni. He also was a member of the NU Hellenic Society and is now a member of the Hellenic Business Network. He and his wife live in Boston, close to the NU campus.

Jeff Ladino, ’00, is managing the quality team at Pyxis Mobile in Waltham, Mass. He is leading initiatives to improve software quality and team productivity through test automation, continuous integration, and agile processes. He also runs the company’s co-op program, through which four former Northeastern co-op students have been hired full time. Jeff and his wife, Colleen, have two children, Brian and Kathleen. They reside in Dedham, Mass.

Eric Penetar, ’04, is a senior software engineer for Urix, a health care software company that specializes in predictive modeling software. He is in charge of one of the company’s software releases, and manages a team of three people on the project. His hobbies include traveling, running, and playing in a kickball league. Eric lives in Cambridge, Mass.

Roman Feldman, ’05, is a software developer at Nevo Technologies, a small consulting company in Cambridge, Mass. He specializes in web application development using ASP.NET. In his spare time he is trying to start an alumni mentoring program at CCIS.

Andrea Grimes, ’05, is in her third year of the human-centered computing PhD program at Georgia Institute of Technology in Atlanta. Her research focuses on designing systems that promote healthy eating habits in low-income, urban neighborhoods. She spent the past two summers working at Microsoft Research in Redmond, Wash., and Cambridge, UK.

Cathy Swenton, ’05, is a software development engineer at Microsoft. She works in a team of nine developers in the SAP group where she develops and supports the web services that Microsoft runs its business on. She recently became engaged to Kevin Sullivan, ’05. In their free time, they love to hike, camp and ski the mountains of Washington.

Jonathan Mitman, ’07, works for General Electric and is on his first rotation in its Information Management Leadership program. This is a two-year program, split into four six-month rotations, where employees mix coursework with work assignments to gain exposure to IT within GE. Jonathan is currently stationed in Atlanta, where he is on rotation with the Oracle ERP Center of Excellence, a group focused on providing expertise in setting Oracle ERP vision and strategies across GE Infrastructure businesses.
Student Achievements

Jason Ansel, ’07, was named a finalist in the Computing Research Association (CRA) Outstanding Undergraduate Awards program. Each year, the CRA recognizes undergraduate students in North American universities who show outstanding potential in an area of computing research. As a finalist, Ansel placed among the top 15 students in this year’s competition. He has coauthored two conference papers and one extended abstract with Professor Gene Cooperman on transparent checkpointing: periodically saving to disk the state of a running program, so that one can restart from disk in the event of computer failure. It is transparent in that the operating system is not modified, and the programmer need not modify the application source code. Ansel is currently working toward transparently checkpointing large distributed computations. Jason was vice-president of the CCIS honor society, Upsilon Pi Epsilon, and cofounder of RALPH, a forum for CCIS students to showcase their research. He began graduate studies at MIT this fall.

First-year CCIS student Jeff Dlouhy was chosen for a spot in the Google Summer of Code program. This is a highly selective program that offers student developers stipends to write code for various open source projects. Google works with several open source, free software and technology-related groups to identify and fund projects. The program is now in its third year and has brought together over 100 students and open source projects, to create hundreds of thousands of lines of code. Dlouhy was one of 900 students accepted from a pool of 6,200 applicants. He will be working on new features and functionality to the Camino web browser. His project proposal was accepted for the Mozilla Foundation.

CCIS senior Nathan Faber’s project was selected by VMWare for the academic poster presentation at VMWorld, held in September 2007 in San Francisco. VMWare, an EMC company, is the global leader in virtual infrastructure software for industry-standard systems. Faber’s project, MOVARTO: Server Migration across Networks using Route Triangulation and DNS, solves a basic problem faced by enterprises—how to move a service across the wide area network while minimizing downtime and attendant disruptions. Existing techniques deal with moving a service only within a network segment. MOVARTO is able to move services across network segments. It does so by a careful layering of networking technologies—route triangulation and DNS—and extends virtualization from servers to networks, achieving “network virtualization.” This project was done in collaboration with Professor Ravi Sundaram.

Christopher Lambert, ’07, received the 2007 Compass Award from the Office of Alumni Relations, which recognizes eight outstanding seniors who have demonstrated commitment to a core set of values. He was also recognized as one of the 100 most influential seniors in the class of 2007 by the vice president of student affairs. Lambert was on the Dean’s List and University Honors Program throughout his tenure at Northeastern. He was an active member of the student chapter of the ACM. During his tenure as president, the chapter was honored for its outstanding chapter activities in the national ACM Student Chapter Excellence Awards for their innovative work in creating a dynamic speaker series and recruiting several international speakers. Lambert also initiated the creation of a 700-book technical library. Since graduating last spring, Lambert has worked for Google.
College of Computer and Information Science Supporters, 2006-2007

The following list includes CCIS alumni who made gifts or pledges to any Northeastern University fund, as well as alumni and friends who directed their gifts specifically to CCIS, between July 1, 2006 and June 30, 2007. Every effort was made to ensure the accuracy of this list. Our sincere apologies for any errors or omissions that may have occurred.

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