

RACHEL A OBER

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EDUCATION

Northeastern University – Boston, MA

May 2008

Candidate for Bachelor of Science in Computer Science & Cognitive Psychology

Honors: Merit Scholarship, Cumulative QPA 3.190/4.0, Dean's List (Fall 2004, Spring 2005, Spring 2006)

Courses include: Software Development, Database Design, Artificial Intelligence, Object-Oriented Programming, Computer Organization, Cognition Lab, Cognition, Psychobiology, Human-Computer Interaction

COMPUTER KNOWLEDGE

Languages: Ruby, PHP, SQL, ASP, C#, C++, C, CSS 2, HTML, JavaScript, Perl, Java

Frameworks: Ruby on Rails, .NET

Databases: MySQL, Oracle, MS SQL, DB2

Systems: UNIX, GNU/Linux, OSX, Windows (9x, 2000, ME, XP Pro & Home)

Applications: Adobe Photoshop CS3, Adobe Illustrator CS3, Macromedia Studio MX, MS SQL Server 2005

EXPERIENCE

Merck & Co. Inc. – Boston, MA

July 2007 – December 2007

Co-op

Designed, implemented, and tuned Oracle database repository that houses more than two million rows of internal and external cancer cell line data. Implemented a web interface with Ruby on Rails to search the database based on criteria specified by the researchers. Developed Ruby scripts to gather online data from different external sources and parse for inclusion in the database. Wrote Ruby scripts to help other members of the Cancer Pathways Department in collecting and processing cancer data for inclusion in the database.

CVS/PharmaCare – Pittsburgh, PA

July 2006 – December 2006

Business Application Developer Co-op

Developed web applications for internal and public corporate web sites. Converted two old business applications from FoxPro to ASP .NET applications. Wrote application to consolidate web mail statistics for customer service utilizing a MS SQL database written in Visual Basic .NET. Analyzed MicroStrategy reporting system in preparation for restructuring.

Northeastern University – Boston, MA

July 2006 – April 2007

Research Assistant

Designed modules for an application designed to keep track of a user's collection of CDs, DVDs, books and video games and allow them to trade with other members of the college. Built the application with Apache, MySQL and Ruby on Rails on GNU/Linux. Awarded \$1,000 in additional funding after developing and submitting proposal to university provost for continued research.

EMC Corporation – Hopkinton, MA

July 2005 – December 2005

Software Quality Engineer Co-op

Created and executed test plans to test CLARiiON Element Manager. Wrote defect reports and submitted them to the development team. Maintained contact with development team to verify, discuss resolutions and close defect reports.

- CVS/PharmaCare – Pittsburgh, PA** May 2005 – June 2005
Website Development Intern
Updated and performed turnovers of healthcare documents on public website. Created and tested applications for use on internal website using MS SQL Server, ASP and .NET technologies. Performed data consolidation using SQL queries.
- Eckerd Health Services/EHS – Pittsburgh, PA** June 2004 – August 2004
Quality Assurance Intern
Coordinated quality assurance of pharmacy benefits web application, organized and constructed procedures for web stress testing by 40 concurrent testers. Designed and created section of web application to present family demographic profiles and benefit selection criteria. Reviewed, updated, tested and promoted to production 200+ pages written in HTML, ASP and .NET.

ACTIVITIES AND PERSONAL PROJECTS

- Student Chapter of Association for Computing Machinery** September 2003–Current
<http://acm.ccs.neu.edu/>
Elected president 2007-2008, vice-president 2006-2007 and treasurer 2004-2006. Prepared financial reports, and maintained contact with student business office. Performed maintenance on the public nuACM website as well as installed and wrote documents for internal “wiki” website. Structured and arranged events for bi-annual “Geek Week”. Taught client-side scripting as part of nuACM’s CPU series for three weeks in March 2007 that covered CSS, JavaScript and XHTML. Developed backup recovery plans for website and internal data.
- CCIS Volunteer Systems Group (“Crew”)** September 2005 – Current
<http://crew.ccs.neu.edu/>
Co-hosted in 2005-2006 and hosted in 2008 a weekly computer science podcast called “NUrdRadio”. Developed structure of episodes and worked with team to research podcasting methods. Researched “Web Annotation” for CCIS website. Student representative to LISA ’05 convention in San Diego, CA.
- CISters** September 2007 – Current
<http://cisters.ccs.neu.edu/>
Member of the women in computer science organization in the College of Computer and Information Science. Active in supporting new female students admitted to the college and organizing and participating in events held by the group.
- Unnamed Computer Recycling Project** January 2008 – Current
Currently researching alternatives for disposing old computer equipment from Northeastern University. Most promising idea is to clean up these old machines and donate them to shelters and under-privileged students in the Boston area.
- Compass Camps** January 2005 – August 2005
<http://teachgroup.ccs.neu.edu/>
Assisted with the organization and teaching of 1-week camp to introduce high school students to Scheme.

PROFESSIONAL ORGANIZATIONS AND MEMBERSHIPS

- National Association for Computing Machinery** Spring 2004 – Current
- Northeastern’s Student Chapter of Association for Computing Machinery** Fall 2004 – Current

INTERESTS

Web design, photography, sketching, computer graphics, console games, writing, singing, playing percussion in community bands, playing violin and guitar.