

Cole McCracken

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Education

Princeton University

Princeton, NJ

Bachelor of Science in Engineering

June, 2015

- Major: Computer Science
- Certificate: Finance
- Departmental GPA: 3.6, Overall GPA: 3.5
- Coursework includes: Algorithms and Data Structures, Intro to Programming Systems, Artificial Intelligence, Advanced Programming Techniques, Information Security
- Sample project: "Shout", a geographically based social networking iPhone application. Used Django to set up the backend and Objective C for the front end.

Experience

Amazon

Seattle, WA

Software Development Engineer

Summer 2014

Worked on an AWS (Amazon Web Services) infrastructure team responsible for automating data center operations

- Created and implemented a service that data technicians could call in order to get their next task. Tested my own code and some of my team's code.
- Presented the API design of my service to the team and select senior developers
- Learned database design and database querying by creating tables and performing queries on those tables
- Gained experience testing with JUnit and EasyMock
- Visited Amazon's northwest data center and watched a hard drive replacement and destruction

Lime Brokerage

Boston, MA

Software Engineer

Summer 2013

Worked on the engineering team (25 people) of a high-speed trading firm that provides technologies to clients for trading stock

- Designed and implemented several programs to automate short sale requests on the stock market. This included aggregating client requests, submitting the requests to another firm, distributing the results among clients and uploading to client accounts
- Modified code to accommodate client requests after speaking with them directly
- Presented my work and its function to my specific team (8 members) at the end of the internship
- Gained experience working in a large code base and added new functionality
- Learned how to use ftp/sftp

Boston University Bioinformatics Department

Boston, MA

Research Assistant

Summer 2012

Worked in a research group affiliated with the Broad Institute doing research on genes that lead to breast, ovarian, and colon cancer

- Analyzed existing databases looking for patterns across different genes
- Wrote programs to parse and format large files
- Presented findings in a seminar to the research group

Technical Skills

Programming Languages

- Professional – Java
- Proficient – C, Python
- Exposure – OCaml, Objective C

Preferred Editors and Environments

- Emacs, Eclipse

Other Technical Experience

- Unix, Git, MySql, Django, Spring, Hibernate, JUnit, EasyMock

Additional

Athletics: Princeton Varsity Soccer

2011 - 2015

Interests: Contact Bridge, Super Smash Bros. (N64), Snowboarding, Chess, Chi Phi Fraternity