Beilin Li

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA   **Graduating May 2018**

B.S. in Mathematical Sciences and Computer Science; *GPA:* 3.6/4.0 (Dean's List: 4 semesters)

Coursework: Machine Learning (PhD), Algorithm Design/Analysis, Computer Systems, Great Theoretical Ideas in CS, Linear Algebra, Probability

EXPERIENCE

Amazon Web Services, Seattle, WA   **May 2017 – Aug 2017**

Software Development Engineer Intern, AWS Trusted Advisor

- Developed Java/Spring backend for new premium AWS service that allows customers to track faulty AWS resources through external dashboard
- Improved customer ease of tracking AWS environments violating best practices
- Automated customer notifications for resource status changes
- Wrote unit and integration tests using JUnit and Mockito

Center for Machine Learning and Health, Pittsburgh, PA   **May 2016 – Aug 2016**

Developer Intern, GenAMap

- Developed Node.js/Express.js backend for cloud-based machine learning platform
- Completed functionality for user authentication, uploading projects, and running jobs
- Expanded React.js user interface to dynamically show D3.js visualizations of user genomic data
- Integrated frontend and backend via Redux.js to allow users to view results in real time

Pittsburgh Supercomputing Center, Pittsburgh, PA   **May 2015 – Apr 2016**

Research Assistant, Biomedical Applications Group

- Created browser interface for visualizing time series data interactively as user-friendly replacement for existing tools
- Integrated Highcharts.js frontend with CellBlender through Python server

Purdue University, West Lafayette, IN   **Jun 2014 – Aug 2014**

Teaching Assistant, CS 180 (Problem Solving and Object Oriented Programming)

- Instructed first-year Java course and orientation for incoming computer science freshmen
- Taught and co-developed programming assignments on topics such as inheritance, recursion, and concurrency

PROJECTS

- **Footprint Detection** (2017): Implemented convolutional neural networks for left/right footprint detection (94% accuracy) and footprint matching from images; used Keras and scikit-image
- **TempTinyURL** (2017): Web application that allows users to create temporary tiny URLs; used Flask and SQLite3
- **Proxy Lab** (course, 2015): Multithreaded web proxy that intercepts, parses, and forwards client HTTP requests to web servers; used C

SKILLS

- **Languages:** Java, C++, C, Python, JavaScript, SQL
- **Tools/Technologies:** UNIX, Git, Eclipse, IntelliJ
- **Libraries/Frameworks:** Spring, Mockito, Node.js, React.js, Redux.js, D3.js, Flask

HONORS

- **Gold Division,** USA Computing Olympiad
- **Top 500 Scorer,** 2014 Putnam Math Competition
- **National Master,** US Chess Federation (top 1.5%)
- **Candidate Master,** Codeforces (peak rating 1927; top 8%)
- **Yellow,** TopCoder (peak rating 1721; top 13%)
- **Round 2,** 2014 Google Code Jam (top 12%)