Beilin Li

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA **Graduating May 2018**
B.S. in Mathematical Sciences, Computer Science (additional major). QPA: 3.58/4.00.
Coursework: Computer Systems, Great Theoretical Ideas in CS, Parallel/Sequential Algorithms, Probability, Differential Equations, Matrix Algebra

SKILLS

Languages: Java; C++; C; Python; HTML/CSS; Javascript; LaTeX
Libraries and Frameworks: jQuery, React.js, D3.js, Node.js, Express.js
Tools and Technologies: UNIX; Git; Eclipse; Docker

EXPERIENCE

Center for Machine Learning and Health, Pittsburgh, PA **May 2016 – Aug 2016**
Developer Intern for GenAMap (web application for analyzing genomic data)
- Contributed frontend and backend features for user authentication, user data management, and monitoring job progress
- Integrated React.js frontend and Node.js/Express.js backend through Redux.js middleware
- Created D3.js visualizations of user genomic data

Pittsburgh Supercomputing Center, Pittsburgh, PA **May 2015 – Apr 2016**
Intern, Biomedical Applications Group
- Developed Highcharts.js tool for visualizing molecular data interactively
- Wrote Python scripts allowing tool to be run from CellBlender
- Improved ease of use and functionality over existing tools

Purdue University, West Lafayette, IN **Jun 2014 – Aug 2014**
Teaching Assistant for Problem Solving and Object Oriented Programming
- Instructed first-year Java course and orientation for incoming computer science students
- Co-developed programming assignments on topics such as inheritance, recursion, and concurrency

PROJECTS

- **Turing Machine Simulator** (personal, 2016): simulator that shows traces for various arithmetic computations on single-tape Turing Machines. Written in C++.
- **Proxy Lab** (course, 2015): multithreaded web proxy that intercepts, parses, and forwards client HTTP requests to web servers. Written in C.

COMPETITIVE ACTIVITIES

- **Competitive Programming** (algorithm design/implementation, usually in C++ or Java)
  - Codeforces (codeforces.com): peak rating 1927 (top 9% in world)
  - Topcoder (topcoder.com/tc): peak rating 1721 (top 13% in world)
  - 2012 USA Computing Olympiad: Gold Division (top 350 of 1500 participants)
  - 2014 Google Code Jam: Round 2 (top 3000 of 25000 participants)
- **Putnam Mathematical Competition:** top 500 of over 4000 participants (2014)
- **Chess**
  - US Chess Federation Expert: peak rating 2157 (top 2%)
  - Chess^Summit (chesssummit.com): one of four regular writers for free chess instruction site