Zhehao Mao
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Education

- Columbia University, School of Engineering and Applied Science

- Computer Engineering, B.S.

- Expected Graduation: May 2014

- GPA: 4.0946/4.0

- Relevant Coursework

  - Advanced Programming
  - Data Structures and Algorithms
  - Intro to Electrical Engineering
  - Digital Systems Lab
  - Signals and Systems

Technical Skills

Programming Languages

Python, C, Bash, Java, Perl, Lisp, C++, Javascript

Operating Systems

Ubuntu, Debian, ArchLinux, CentOS

Server Software

Apache, Nginx, MySQL, MongoDB, Redis, OpenSSH

Frameworks and Libraries

Flask, Tornado, Gevent, Django, Libevent, Libev, jQuery, Arduino

Work Experience

Columbia Spectator Publishing Company

Deputy Director of Operations, January 2011 - present

- Working on making website infrastructure more secure

- Migrated website code to git repository

- Worked on redesign for the website of the Eye, the Spectator's weekly magazine

- Mined data for the housing calculator application for the Shaft, a Spectator-sponsored blog covering the undergraduate housing application process at Columbia

10gen, Inc.

Software Engineering Intern, June - August 2012

- Worked on integrating gcov and lcov with MongoDB build system

- Wrote automated benchmarking scripts for MongoDB

- Submitted patches to MongoDB core server and C driver

Science Applications International Corporation

Software Engineering Intern, May - August 2011

- Analyzed data from tests of direction-finding radio antennae

- Helped set up supercomputing cluster for electromagnetic simulation

- Helped develop initial concept for a DoD contract

Center for Integrated Science and Engineering

Computer Assistant (Class III), September 2010 - May 2011

- Maintained the CISE website

- Redesigned parts of the website for easier maintenance

- Trained other staff members to maintain website

CommIT Enterprises

Software Development Intern, June 2009 - August 2009

- Worked on developing application for Android phones

- Gained experience in management of relational databases (SQLite)

- Gave project presentation to SPAWAR representatives

Natural Languages

- Mandarin Chinese (conversationally fluent)

- Spanish (proficient at reading and writing)

Leadership

- Executive board member of the Application Development Initiative