TONG LIU

@tongyliu on GitHub

tongyliu.com

Education

University of Michigan, Ann Arbor, MI — 2014 to 2017
B.S.E. Computer Science, minor in Economics
Expected graduation date May 2017

- Overall GPA: 3.9, Major GPA: 4.0
- Coursework includes *Data Structures and Algorithms* (EECS 281), *Introduction to Computer Security* (EECS 388), *Introduction to Artificial Intelligence* (EECS 492), *Introduction to Operating Systems* (EECS 482), *Database Management Systems* (EECS 484), *Introduction to Machine Learning (EECS 445),* and *Software Engineering* (EECS 481)
- Dean's Honor List (all semesters), Everett Scholarship recipient (2015)
- Member of Eta Kappa Nu (HKN) honor society

Experience

Cisco — Software Engineering Intern, May 2016 to August 2016 — San Jose, CA
The world's largest networking company

- Worked to make CAFY, an internal framework for testing automation and data analysis, useable by more Cisco platforms
- Designed and developed a standardized framework for parsing data from test result files using Python
- Coordinated database transition to MongoDB from MySQL (original SQL schema had platform-specific columns)
- Updated CAFY dashboard charts and graphs to be dynamically generated based on user-configurable metadata
- Implemented Redis caching for generated statistics, reducing expensive server-side calculations

Weebly — Engineering Intern, May 2015 to August 2015 — San Francisco, CA
Popular drag-and-drop website creator and e-commerce platform

- Helped build Weebly into a platform for third-party developers and created one of the first Weebly apps
- Developed features for the Weebly App Center and Developer Admin Panel, including an email verification system (PHP)
- Refactored and made improvements to the backend code dealing with third-party platform elements (specifically fixed several edge cases dealing with element version number conflicts)
- Designed, implemented, and tested several of Weebly's first external REST APIs including those for site membership, commerce, and page settings

Companion — Software Developer, February 2015 to present — Ann Arbor, MI
Rapidly growing public safety start-up (gained roughly half a million users during a period of two weeks in Sep. 2015)

- Created monitoring dashboard for public safety departments that allows them to make more informed decisions about what areas to patrol (via data reported from the iOS and Android Companion applications)
- Led feature development, scaling, and internationalization efforts for the backend (Ruby on Rails + PostgreSQL)
- Improved Rails codebase originally built by contractors, and decreased server error rate from several percent to under 0.1%
- Developed key features on Android including accelerometer and location based event triggers

Clavis Sinica — Software Intern, June 2014 to May 2015 — Ann Arbor, MI
Small Chinese learning software company with clients including Yale, Stanford, and the United Nations

- Worked on critical fixes and feature development for desktop and mobile applications using Java and Ruby

Chinese Feminism Project — Web Developer, December 2014 to May 2015 — Ann Arbor, MI
University of Michigan Women's Studies professor's project creating website supporting feminism in China

Art Corner Studio — Tutor, December 2013 to present, excluding summers — Ann Arbor, MI
Local art studio that also offers academic tutoring services for its students

Skills

- Server side development with PHP, Ruby on Rails, Node.js, Python (Flask), and Go
- Database technologies, both relational (MySQL and PostgreSQL) and NoSQL
- Javascript frameworks including React, Backbone + Marionette, and Angular
- CSS preprocessors (primarily SASS and SCSS)
- Native Android (Java) and iOS development (Objective-C/Swift)
- Other languages including C, C++, Python, LaTeX, and MATLAB