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## Education

**University of California, Davis**  
B.S. Computer Science and Engineering  
Cumulative GPA: 3.80

Sept 2012 - June 2016

## Experience

**Enovix Corp., Summer Intern, Fremont, CA**

Summer 2013

- Helped develop scripts to aid the testing and data analysis team in battery R&D.
- Worked under three engineers to assist their daily tasks.

**Undergraduate Research Assistant, Dr. Nelson Max**

Spring 2014

- Examined third party and in-house software (BuildBeta, AmberTools, Rosetta) for computational methods in protein structure prediction.

**Enovix Corp., Test Lab Intern, Fremont, CA**

Summer 2014

- Worked under the Director of Integration on data flow and reporting.
- Created an SMS alert system for tasks and checks.
- Made GUIs for displaying battery tester machine status.
- Efforts helped to streamline parts and analysis through the company pipeline.

**Tutoring, Davis Computer Science Club**

Spring 2014, Fall 2014

- Free tutoring for students in lower division computer science courses.
- Reinforced object oriented programming, data structure and algorithm concepts.
- Increased students' understanding of core computer science ideas.

**Vice Chair, Web Dev. Committee, Davis Computer Science Club**

2014-2015

- Working on a web application for the Tutoring Committee to track tutors' schedules.

## Projects

**ping@me, <http://github.com/KelvinLu/ping-at-me>**

Oct 2014

- Personal project to learn AngularJS and Firebase.
- Communicates HTML5 geolocation to friends in Yo app fashion.

**Marklog, <http://github.com/KelvinLu/marklog>**

Sept 2014

- Small Flask web application that serves Markdown files for personal blogs.

**File Compression by Huffman Codes**

Spring 2013

- Implemented lossless file compression with Huffman Encoding.
- Use of various tree data structures for performance optimization.

**Airport Flight Routing**

Spring 2013

- Computed the best cost itineraries for thousands of simulated airports and flights.
- Implemented Dijkstra's algorithm with modifications to increase efficiency.
- Successfully performed under a time limit with optimization and code profiling.

## Technical

**Languages**

*proficiency* Python, JavaScript, C++, Java, C

*familiarity* R, Lisp, Prolog

**Frameworks, Libraries**

Django, Flask, Pandas, AngularJS, jQuery

**Concepts**

Object Oriented Programming, Data Structures, Graph Algorithms, Sorting Algorithms, Statistics, MVC, REST, AJAX

## Honors

College of Engineering Dean's List (6 Quarters)  
Edward Kraft Prize Recipient