[©]San Jose, CA | Maisern.lim@berkeley.edu | 6 1.408.666.3560 | 4 kaisernlim.com | 4 LevelTwo

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

BS IN ELECTRICAL ENGINEERING & COMPUTER SCIENCE Expected May 2017 | Berkeley, CA

Sophomore GPA: 3.04 | Junior GPA: 3.43



My Website

RELEVANT COURSEWORK

CURRENT

Information Theory & Coding • Database Systems • Computer Simulations in Earth & Planetary Science

COMPLETED

Data Structures, Efficient Algorithms & Intractable Problems • Machine Learning • Computer Security • Embedded Systems • Probability & Random Processes • Computational Photography & Image Processing • Digital Signal Processing

PROJECTS

PANORAMA ALIGN

Aligns images for a panorama utilizing Harris Corner Detection, MOPS, and RANSAC algorithms, written in Python

NEURAL NETWORK

Written from scratch, a neural network code with one hidden layer in Python, achieving 99% test accuracy on the MNIST dataset

EULERIAN VIDEO MAGNIFICATION

Python program that implements the MIT paper processing a video by amplifying selected band-pass filtered frequency motions **MAPREDUCE 15 PUZZLE**

Finds all possible board states of a sliding puzzle and strongly solves them using Apache Spark (MapReduce)

EXPERIENCE

SPLUNK | FRONT END ENGINEERING INTERN

May 2016 - August 2016 | San Francisco, CA

- Redesigned Splunk's **URL generation** system, inventing a new, **backwards-compatible** system with an \approx 63% reduction in function arguments, and implemented the design concept with a focus on stable **test-driven development** and **ES6**.
- Customized a version of Splunk that was used at a sales demo showcasing how OEM partners can customize Splunk.
- Worked with BackboneJS and PostCSS technologies to refactor the production code for several of Splunk's pages.

ADAPTIVE INSIGHTS | Software Engineering Intern

June 2015 - August 2015 | Palo Alto, CA

- Worked on the **Build & Release Team**, and set up **Continuous Integration** system with **Jenkins**.
- Wrote **Python scripts** for automation of information retrieval from active machines.
- Wrote custom detector plugin for FindBugs the Java static analysis tool to lint static code for errors.

EE16B (Designing Information Systems II) | Academic Intern

January 2016 - May 2016 | Berkeley, CA

• Responsibilities include: grading students' assignments, guiding students in lab, and staffing homework parties

SKILLS

PROGRAMMING

Over 5000 lines: Python • Javascript

Familiar: ReactJS • Java • C • Ruby • Apache Spark • MIPS

NON-PROGRAMMING

Skilled in: HTML • CSS • Adobe Photoshop • Adobe Illustrator • Sketch • Jenkins • Docker • LEX HAM Radio Licensed (Technician)