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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

BS IN ELECTRICAL ENGINEERING & COMPUTER SCIENCE

Expected May 2017 | Berkeley, CA

COURSEWORK

CURRENT

CS161 (Computer Security) • CS189 (Machine Learning) • CS198 (Ruby on Rails Decal)

COMPLETED

CS 61A (Intro to Computer Science) • CS 61B (Data Structures & Algorithms) • CS 61C (Great Ideas in Computer Architecture) • CS 70 (Discrete Mathematics) • CS 170 (Efficient Algorithms & Intractable Problems) • CS 194-26 (Computational Photography & Image Processing) • EE 20 + EE 120 (Signals & Systems) • EE 40 (Intro to Microelectronic Circuits) • EE 123 (Digital Signal Processing) • EE 126 (Probability + Random Processes) • EECS 149 (Embedded Systems)

PROJECTS

IMAGE PACKET TRANSMISSION

Python program that encodes an image into AX25 packets which are transmitted by a radio to other radios using packet radio **PANORAMA ALIGN**

Python program that aligns images for a panorama using Harris Corner Detection, MOPS, and RANSAC

NETWORK

Implements an A.I. that chooses an optimal move utilizing Alpha-Beta Pruning for the game Network in Java

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

ADAPTIVE INSIGHTS | Software Engineering Intern

June 2015 - Aug 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 statically lint code for errors.

EE16B (Designing Information Systems II) | Academic Intern

January 2016 - Present | Berkeley, CA

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

CS61B + CS61C (Data Structures + Computer Architecture) | Lab Assistant

August 2014 - May 2015 | Berkeley, CA

• Assisting and tutoring students with their weekly lab and homework. Also consists of debuggingthe students' projects.

SKILLS

PROGRAMMING

Over 5000 lines: Java • Python

Familiar: ReactJS • Javascript • C • Ruby • Apache Spark • MIPS • LETEX

NON-PROGRAMMING

Skilled in: HTML • Adobe Photoshop • Adobe Illustrator • Sketch • Jenkins • Docker

HAM Radio Licensed (Technician)