ANGELINA WANG

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EDUCATION

University of California, Berkeley *(anticipated) May 2019*
B.S. Electrical Engineering and Computer Science, Minor in Philosophy Technical GPA: 3.90

Honors: Regents and Chancellors' Scholar (top 2% of incoming class), Member of Eta Kappa Nu (Electrical and Computer Engineering Honors Society), Member of Tau Beta Pi (Engineering Honors Society)
Relevant Coursework: Data Structures, Machine Structures, Efficient Algorithms and Intractable Problems, Artificial Intelligence, Operating Systems and Systems Programming, Optimization Models in Engineering

University of Cambridge *June 2016 - August 2016*
Summer study abroad: Philosophy

TECHNICAL SKILLS

Computer Languages Python, C++, C, Java, Scheme, SQL, HTML, CSS, Swift
Software & Tools Git, Unix, LaTeX, Vim, Xcode

EXPERIENCE

Google, Inc. May 2017 - August 2017
Engineering Practicum Intern *Seattle, WA*

- Worked on infrastructure team to improve Streaming Flume, the internal streaming data processing system
- Implemented hot key detection and mitigation to parallelize bottlenecks in the pipeline
- Created a protocol buffer communication channel for key heat information between manager and worker nodes

Archer (Technology Nonprofit, archeratberkeley.com) January 2017 - present
Software Engineer *Berkeley, CA*

- Consolidated data for every flight in the air through Amazon Redshift to maintain a historical database
- Implemented map visualization for aircraft flight patterns, with queries available by ICAO code or region
- Presented to a group of government officials and NGOs working in the counterterrorism field in Washington D.C. about utilizing our product to help track suspicious aircrafts, one of which picked up our project

Pioneers in Engineering September 2016-June 2017
Runtime Team Member *Berkeley, CA*

- Prepare robotics software for high schools to use by working on multiprocessing to integrate control input with student code through the use of pipes to send information between various systems
- Create API around the abilities and functions the hardware team has implemented as Runtime staff member

PROJECTS

Pairings

- Implemented version of Stable Marriage Algorithm that doesn't require participants to rank all members
- Utilized Google Sheets API to read from and write results of creating optimal pairings to

Voice Control Robot

- Built a robot that responds to 4 voice commands identified using PCA analysis
- Created eigenvalues and controls to allow for forwards movement of 2 different speeds and turning

Text Editor

- Created a text editor in Java with size change, scroll bar, word wrap, open/save, and undo/redo capabilities
- Constructed a cursor that moves to click location in constant time by maintaining linked lists of the characters

EXTRACURRICULARS

Challah for Hunger - served as executive board member of community service organization
Juggling Club - favorite patterns: Jim's 3 count, factory