

# Marvin Luong

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## EDUCATION

### UC BERKELEY

#### B.A. IN COMPUTER SCIENCE

Berkeley, CA

Expected Graduation: May 2020

Cum. GPA: 3.63

Honors to Date:

Jan 10, 2017 & May 12, 2017

## COURSEWORK

CS170★ - Algorithms

CS161★ - Computer Security

CS198★ - Web Design

CS61B - Data Structures

CS188 - Artificial Intelligence

CS61C - Machine Structures

EE16A - Designing Information Devices  
Systems I

CS70 - Discrete Mathematics and  
Probability Theory

CS61A - Structure and Interpretation of  
Computer Programs

★ Fall 2018

## SKILLS

### APPLICATIONS

Java • Python • C •

JavaScript •  $\text{\LaTeX}$  • SQL

• HTML • Splunk

### SPOKEN LANGUAGES

Fluent in English

Conversant in Mandarin

Conversant in Cantonese

## PROJECTS

### AUTOCOMPLETE | JAVA

- Created an immutable data type that has autocomplete functionality for a given list of words
- Achieved best case runtime

### SECURE DROPBOX | GOLANG

- Implemented a secure file store by maintaining confidentiality and integrity on an untrusted server
- Utilized encryption and MAC to defend against man-in-the-middle attacks, data tampering

### RISC-V DATAPATH | C & LOGISM

- Developed a 32-bit processor based on RISC-V (Assembly code)
- Provided logic gates for machinery to execute Assembly instructions
- Designed a 2-stage pipeline

## WORK EXPERIENCE

### CITY & COUNTY OF SAN FRANCISCO, DEPARTMENT OF TECHNOLOGY | STUDENT DESIGN TRAINEE I

Jun 2018 – Aug 2018 | San Francisco, CA

- Performed business continuity and disaster recovery test to city-wide applications in preparation for potential future disasters
- Formulated Continuity of Operation and Incident Response plans for individual Department of Technology divisions

## ACTIVITIES

### UPSILON PI EPSILON | COMPUTER SCIENCE HONOR SOCIETY

Jan 2018 – Present | Berkeley, CA

- Member of the Web Development committee and learned basic front-end skills
- Participated in technical interviews, and went to professional workshops hosted by technology companies

### ASIAN AMERICAN ASSOCIATION | PROFESSIONAL DEVELOPMENT COMMITTEE

Sep 2017 – Present | Berkeley, CA

- Hosted a fireside chat with guest speakers like Kevin Chou (Founder of Kabam)
- Conducted case studies and participated in resume workshops
- Fundraised over \$500 for the club

### ACADEMIC INTERN | DATA STRUCTURES

Jan 2018 – Present | Berkeley, CA

- Guide students through lab assignment and projects