

# ANDREW TANG

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## OBJECTIVE

Seeking internship opportunities in the fields of data analysis, software development, and software engineering in the Summer 2020.

## EDUCATION

### UC BERKELEY

B.A. COMPUTER SCIENCE

GPA 3.41/4.00

May 2021

## COURSEWORK

### UNDERGRADUATE

Data Structures  
Computer Architecture  
Efficient Algorithms  
Operating Systems and Systems Programming  
Introduction to Databases  
Interpretation of Computer Programs  
Information Devices and Systems  
Discrete Mathematics and Probability  
Introduction to Artificial Intelligence  
The Foundations of Data Science  
Principles & Techniques of Data Science

## SKILLS

### PROGRAMMING LANGUAGES

Python • Java • C++  
Javascript • CSS • HTML  
Node.js • Scheme • SQL

### FRAMEWORKS

Git • Latex • Elasticsearch  
Logstash • Kibana

## AWARDS

### ACADEMIC

AIME Qualifier (2016)  
USACO Silver Contestant  
National Merit Finalist (2017)  
2nd Place Award Synopsys Science Fair, Engineering Category (2015)

### MISCELLANEOUS

2x CalChess State Grade Level Champions (2014-2015)  
Top 50 at California State Parliamentary Debate (2016)

## EXPERIENCE

### AMAZON.COM | SOFTWARE DEVELOPMENT ENGINEER INTERN

05/2019-08/2019 | Seattle

- Integrated ELK stack into existing seller enforcement service that allows for metrics, dashboards, and alarms to track application logs.
- Created system of structured JSON data that enables advanced analytical capabilities which can query, aggregate, and report.
- Delivered actionable insights in real time which reduced engineering team's debugging time by 90%.

### CLEAR CLOUD GLOBAL | DATA ANALYST INTERN

06/2018-08/2018 | San Jose

- Studied big data analysis, machine learning, network security protocols.
- Trained a domain-name recognition model to increase detection rate of malicious Chinese domain names by 20%.
- Improved recognition rate and reduced "false-positive" cases for domain-recognition model.

### COMPUTER SCIENCE MENTORS | DATA STRUCTURES MENTOR

08/2018-Present | Berkeley

- Mentored group of students through core Data Structures concepts like Maps, Graphs, DFS, BFS and Tries.
- Held review sessions and created detailed worksheets for upcoming midterms.
- Helped build and maintain infrastructure and architecture of the CSM scheduler website as part of the tech team.

### UC BERKELEY | DATA STRUCTURES ACADEMIC TUTOR

08/2018-Present | Berkeley

- Assisted in instructing students in Data Structures Lab Assignments.
- Aided students in learning Java syntax, Linked Lists, Git, etc.

## PROJECTS

### MONERO CRYPTOCURRENCY | AUGUST 2018

- Built computer with Radeon Vega GPU that performed with a hash rate of 1339.7 Hashes per second.
- Accomplished a hash rate 10x speed faster than the average GPU.

### CAL HACK EARTHQUAKE APP | OCTOBER 2017

- Built archetype for real-time earthquake alert app for Android.
- Used basic XML user interface tool to create and design template for nearest hospitals, public shelters, and food banks.

### SYNOPSYS SCIENCE FAIR | MARCH 2015

- Worked with findlaw.com on analyzing recent real-time DDoS attacks.
- Created an algorithm that accurately targets the source location of malicious web behavior.