

ANDREW ZEFF

119 Edgewood Avenue | San Francisco, CA 94117 | 415.361.6136 | apzsfo@gmail.com | GitHub: apzsfo

EDUCATION

University of California, Los Angeles, GPA: 3.8

Major and Intended Graduation: B.S. in Computer Science, 2021

Coursework: Data Structures & Algorithms, OS, Computer Architecture, Linux, Probability Theory, Machine Learning

Organizations: TBP (Engineering Honor Society), UPE (CS Honor Society), DevX, ACM, MentorSEAS, Tennis Club, Film Club

SKILLS

Languages: C/C++, Python, JavaScript, Java, HTML, CSS, PHP, LISP, x86 Assembly

Frameworks: Linux/Bash, AWS, Vim, Git, Serverless, Node.JS/Express.JS, MongoDB, TensorFlow, Sci-Kit Learn, React, Ruby on Rails, MochaJS/Chai.js/Sinon.js, NoSQL

WORK EXPERIENCE

Cargomatic - *Software Engineering Intern*

June 2019 - August 2019

- Increased touchless transactions by 80% by writing serverless applications to:
 - Allow drivers to upload scanned documents to Amazon S3, automating conversion from .pdf to .png formats.
 - Analyze/verify image validity, process metadata, and store results in DynamoDB table.
- Tested integrity of applications with code coverage analyses and unit testing in MochaJS, Chai.js, and Sinon.JS.
- Cleared backlog of 100,000+ legacy proof of delivery files by developing open source-based service using TensorFlow. (Tools: *boto3*, *pdftoppm*, *Amazon S3*, *AWS Lambda*, *Node.js*, *MongoDB*, *AWS Rekognition*, *DynamoDB*, *Cargomatic API*)

DevX - *Back-end developer (StudySmart UCLA Campus Application)*

December 2018 - Present

Programmed campus service for students to find empty classrooms in which to study by scraping various university sites, extrapolating room vacancies with data inversion, and dynamically updating new dataset to DynamoDB.

(Tools: *Puppeteer*, *JSON*, *Node.js*, *Express.js*, *AWS Lambda*, *DynamoDB*)

Idiomatic, Inc. - *Software Engineering Intern*

June 2018 - August 2018

- Assessed user satisfaction for 30+ clients by performing sentiment analyses with AWS Comprehend on reviews.
- Encouraged user participation by removing personally identifiable information with Google DLP API from textual data.
- Evaluated, selected, and trained scikit-learn machine learning models, optimizing for cost, reliability, and efficiency.

PROJECT EXPERIENCE

NBApredictor (in progress)

September 2019

- Building RESTful API that allows users to retrieve individual and team stats from basketball-reference.com.
- Gleaned data is used to predict individual stats and team success for following season.
- Results are sent to MongoDB, along with the current data. Tools: *Node.js*, *Express*, *Tensorflow*, *MongoDB*, *Mongoose*.

Chatter

June 2019

- Created Facebook Messenger chatbot with Dialogflow, Node.js and FB API to provide responses to user messages.

EXT2 File System Analysis

May 2019

- Wrote C program to analyze superblock, groups, directories, and i-nodes, and Python script to identify inconsistencies.

Personal Website

April 2019

- Created a site with HTML, CSS, JavaScript, and jQuery to showcase my technical experience: <https://apzsfo.github.io/>.

Blind Walker

March 2019

- Wrote Python script that recursively solves mazes. Movements were validated with HTTP requests to remote server.

Chetyris

April 2018

- Built multi-class C++ version of Tetris with custom pieces, using recursion, inheritance, and Standard Template Library.

HONORS AND DISTINCTIONS

Dean's Honors List

September 2017 - Present

Ivan Barker Scholarship (top math student at Lowell High School)

May 2017

AIME Qualifier (top 3% worldwide on American Math Competition)

February 2017