ANDREW ZEFF

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EDUCATION

University of California, Los Angeles, Los Angeles, CA, **GPA:** 3.8
Major and Intended Graduation: B.S. in Computer Science, 2021
Relevant Coursework: Data Structures & Alg, Operating Systems, Computer Architecture, Linux, Probability Theory
Organizations: Upsilon Pi Epsilon, DevX, ACM Hack, ACM AI, ACM ICPC, Club Tennis, Film Club

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SKILLS (proficiency out of 5)
Languages: C/C++ (5/5), Python (5/5), JS (5/5), Java (5/5), HTML (4/5), CSS (4/5), Ruby on Rails (3/5), LISP (3/5), x86 (2/5)
Frameworks: Linux/Bash (5/5), OS Principles (4/5), Vim (4/5), Git (4/5), Serverless (4/5), AWS (3/5), Node.JS/Express.JS (3/5) , MongoDB (2/5), MochaJS/Chai.js/Sinon.JS (2/5), TensorFlow (2/5), React (1/5)

WORK EXPERIENCE

Cargomatic, Inc. - *Software Engineering Intern*, Los Angeles, CA, Summer 2019
- Leveraged the TensorFlow API to automate an image classifier to test validity of 100,000+ files.
- Wrote a serverless application that uploads proof of delivery files to Amazon S3, has a Lambda function in Node.js to process file metadata, sends data to AWS Rekognition, and stores the results in a particular table in DynamoDB.
- Wrote an application that tests accuracy and relevancy of stored image metadata by making queries to MongoDB.
- Performed unit tests in MochaJS, Chai.js, and Sinon.JS and code coverage analyses.

UCLA DevX - *Back-end developer*, Los Angeles, Winter 2019-Present
- Back-end developer working on StudySmart application, a study tool used by students across campus.
- Implementing web-scrapers and packaging web service endpoints using Express.js and Puppeteer.
- Building a Lambda deployment package in Node.js to be pushed to DynamoDB.

Idiomatic - *Software Engineering Intern*, Menlo Park, CA, Summer 2018
- Leveraged AWS Comprehend to perform sentiment analyses on customer reviews.
- Leveraged Google DLP API to remove personally identifiable information from textual data.
- Compared and trained scikit-learn machine learning models.

PROJECT EXPERIENCE

Facebook chatbot, Summer 2019
- Created a Facebook messenger chatbot in Dialogflow and Node.js that provides generic responses to user messages. Technologies: *Dialogflow, Node.js, Facebook API.*

Web-Based Maze Solver, Spring 2019
- Wrote a python script that recursively solves a series of mazes. HTTP requests were made to a remote server to determine valid movements. Technologies: *Python, UPE API.*

Personal Website, Spring 2019
- Created a personal website showcasing my projects: https://apzsfo.github.io/. Technologies: *HTML, CSS, JavaScript.*

File System Interpretation and Analysis, Spring 2019
- Wrote a C program that analyzes the superblock, the groups, the directories, and the i-nodes of the EXT2 file system. Wrote a python script to examine inconsistencies in EXT2 file system. Technologies: *C, Python, debugfs.*

Text-based tetris, Spring 2018
- Wrote a multi-class C++ program using recursion, inheritance, and the standard template library that implements a version of the classic tetris game with special pieces. Technologies: *C++.*

HONORS AND DISTINCTIONS

Upsilon Pi Epsilon (UPE), Spring 2019 – present
- International Honor Society for the Computing and Information Disciplines.

Dean's Honor Roll, Fall 2017 – present

Ivan Barker Mathematics Award, May 2017
- Scholarship awarded to top math student at Lowell High School.

American Math Competition (Score: 112.5; Passing: 100.5), March 2017
- Qualified for American Invitational Mathematics Exam (AIME). Among top 3% of all test takers worldwide.