

# 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), Java (4/5), JavaScript (3/5), HTML (3/5), CSS (3/5), LISP (3/5), x86-64 (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)

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## 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 python script to upload proof of delivery files to Amazon S3 and implemented a Lambda function in Node.js to process file metadata, sent data to AWS Rekognition, and stored the results in a particular table in DynamoDB.
- Tested accuracy and relevancy of 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-scrappers and packaging web service endpoints using Express.js and Puppeteer.
- Building a Lambda deployment package in Node.js to be pushed to DynamoDB.

**Idiomatic** - *Machine Learning and Data Analyst 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.
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## 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. 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++*.
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## 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.