

ANDREW ZEFF

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EDUCATION

University of California, Los Angeles, GPA: 3.8

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

Coursework: Data Structures & Algorithms, Operating Systems, Computer Architecture, Machine Learning, Programming Languages, Software Engineering, Probability Theory, Discrete Structures, Linear Algebra

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, Bash

Frameworks: Linux, AWS, Git, Node.JS, MongoDB, TensorFlow, Sci-Kit Learn, React, MochaJS, Chai.js, Sinon.js, NoSQL, MySQL, PostgreSQL, asyncio, Serverless

WORK EXPERIENCE

Amazon - Incoming Software Engineering Intern June 2020 – September 2020
FBA IVR Platform Team

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 – January 2020

- 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.
- Wrote an endpoint that allows users to select classrooms and to be notified of those classrooms' availabilities.
(Tools: *Puppeteer*, *JSON*, *Node.js*, *Express.js*, *AWS Lambda*, *DynamoDB*, *React*)

Idiomatc, 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

Proxy Herd April 2019

- Built a proxy herd using TCP connections that allows a single server to retrieve location requests from a client, respond to that client, and concurrently flood its response to other servers. Built with Python, asyncio, and Google Places API.

NBApredictor (in progress) September 2019

- Building RESTful API in Express.js and Mongoose to retrieve data from basketball-reference.com, train the data in Tensorflow to predict future player and team performance, and store data and results in MongoDB.

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.

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