Michael Chen

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EDUCATION

University of California, Berkeley Expected May 2021

Bachelor of Science, Electrical Engineering & Computer Science (EECS)

- Relevant Coursework: Data Structures (CS61B), Discrete Math (CS70) GPA: 4.0

SUMMARY OF QUALIFICATIONS

- Extensive background in full-stack application development
- Strong knowledge on algorithms built on competitive experience
- Excellent with Java, C++, Android, Swift/iOS and Python; Proficient in HTML/CSS/JavaScript, React, SQL, and PHP

WORK EXPERIENCE

Berkeley RISE Lab | Undergraduate Researcher Mar. 2019 - present

- Developing a low-latency, modular architecture that hosts machine learning models, allowing for live and instant querying
- Currently conducting model curation, transferring models from a variety of frameworks to a Clipper compatible format

Berkeley SWARM Lab | Undergraduate Researcher Feb. 2019 - present

- Researching low latency, low power wireless networks and their viability in factory applications
- Using Python and the WaveForms API to develop a test harness to ensure experimental accuracy

Intensivate | Software Engineering Intern Feb. 2019 - present

- Using Flask and JavaScript to perform integration with uWSGI to reduce real-time server latency
- Developing and deploying data structures to efficiently handle concurrent user changes

Bespoke | Data Analyst Intern Feb. 2019 - present

- Creating and tuning Java scripts to efficiently organize and analyze data logs for AI chatbots that assist 35K users daily
- Parsing for specific chat attributes, including language, common queries, and user mood

Gigtr | Mobile Developer Dec. 2018 – Feb. 2019

- Optimized data parsing and storage by shifting to a DynamoDB framework
- Implemented features in Java such as a dynamically shifting heatmap and an engaging social feed

Pixi | Web Developer July 2018 – Dec. 2018

- Conducted full-stack development, including designing and implementing the front-end using React, along with structuring and integrating the back-end databases using MySQL

PROJECTS

PeerWalk Dec. 2018 – present

- Developing a service connecting students walking between the same locations, ensuring security and comfort
- Utilizing real time algorithmic analysis to determine optimal groupings

Oski List (web application) Sept. 2018 – Feb. 2019

- Created a unified and streamlined web application for UC Berkeley students to buy and sell services and used goods

Gmail Autoreply Filter Aug. 2018 – Jan. 2019

- Created a Chrome extension based in JavaScript that used word embedding to replace Gmail autoreplies with related quotes

DriveClear (Android application) Oct. 2017

- Utilized IBM Watson to develop reaction and motor tests that approximate the sobriety of a user compared to a baseline
- Awarded Top Android Application at HSHacks, the largest high school hackathon

ACTIVITIES AND AWARDS

Codeology | Project Member Jan. 2019 – present

- Developing a travel scheduler using JavaScript and Python, and powered by flow routing and graph algorithms

Computer Science Mentors | CS 88 Junior Mentor Jan. 2019 – present

- Teaching groups of 5-6 students weekly with a personally developed lesson plan

UC Berkeley Computer Science Department | Academic Intern, CS 61A Jan. 2019 – present

- Tutored and assisted groups of 30-40 students in labs and during office hours

USA Computing Olympiad - Platinum Sept. 2016

- Top 200 among high school algorithmic programmers