MENGYU "JACK" ZHANG

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EDUCATION

2019 – 2022 **University of Southern California** **B.S. - Computer Science**
GPA: 3.86/4.0
Machine Learning, Artificial Intelligence, Software Development, Discrete Math, Advanced Data Structures & Algorithms, Probability Theory, Computer and Network Security

Summer 2019 **University of California, Berkeley** **N/A (Summer Program)**
GPA: 3.75/4.0
Intro to Machine Learning, Operating Systems & Networking, Machine Learning, Linear Algebra

2018 – 2019 **University of California, Merced** **B.S. (transferred) - Computer Science and Engineering**
GPA: 3.75/4.0
Data Structures & Algorithms, Calculus, Computer Architecture, Computer Organization

EXPERIENCES

Data Scientist
/Research Assistant **Children's Hospital Los Angeles, Levitt Lab** ⬀ **Jan 2021 - Aug 2022 Part-time, since Aug 2022 Full-time**
Machine Learning research and software development with a focus on EEG data and signal processing under Dr. Pat Levitt. Primary goal: analyze and eliminate unwanted noise from EEG data, build pipelines that eliminates/corrects unwanted noise from EEG data using various means like Machine Learning, Signal Processing, Computer Vision (movement analysis), etc.
`Machine Learning / Signal Processing / Computer Vision / Python / EEG / MatLab`

Software Developer
Intern **Royal Bank of Canada, Amplify** ⬀ **Summer 2021**
As a full-stack developer, worked on a team of 4 and developed the first end-to-end automated configuration solution for the SRE monitoring eco-system at RBC as part of its infrastructure-as-code initiative. Backend built with Flask and deployed on Kubernetes.
`Python / JavaScript / Kubernetes / Jsonnet / DevOps / Flask`

Teaching Assistant **University of Southern California, CS@SC** ⬀ **Jun 2020 - May 2021**
Taught introductory and intermediate level Python, Java, and Web development to students of different levels from middle/high school. Created unit tests for student assignments, wrote quizzes and review questions for the students.
`Java / JavaScript / Python`

PROJECTS

Personal Project
Full Stack **Shopper** ⬀ **Since Oct 2023**
Purpose: one-stop solution for comparing grocery prices across different places.
Built a web app that compares grocery prices from different stores and retailers. Supports unit price conversion and comparison. Features reactive front end built with Svelte.
`Svelte / JavaScript / Go / SQLite / Cloudflare Workers`

Personal Project
Android &
Back end **"KnocKnock"** ⬀ **Since Oct 2018**
Purpose: solve the problems I had with video calling people in noisy or inconvenient situations.
Built a WebRTC based video conferencing app with features like real-time captioning, language identification, noise-canceling, and manual camera controls. Utilized Machine Learning for multiple audio/image processing steps.
`Android / Kotlin / Java / WebRTC / Python / Firebase / PHP / C++`

Project Lead
Full Stack **GreatFinds** ⬀ **Sep 2020 to Nov 2020**
Software Development class final project, a platform that allows users to share all kinds of media content. Utilized the Java EE stack to develop server-client platform. Built the project structure with core components like JPA (database) and JSF. Coordinated efforts among all group members.
`Java EE / JSF / JPA / MySQL / JavaScript`

For more on my projects, visit jackzhang.me/projects ⬀.

SKILLS (IN APPROXIMATE PROFIENCY ORDER, MOST TO LEAST)

Languages: Python, JavaScript, Java, C/C++, Kotlin, Go, SQL, PHP, Bash, MATLAB.

Frameworks/Tools: Android, Node.js, React, Svelte, Flutter, Flask, TensorFlow, Java EE, GCP, WebRTC, CI.

ACTIVITIES/HOBBIES

Machine Learning
ACM
Hackathons (e.g. HackSC)
Answering on Stack Overflow :)
CTFs (e.g. picoCTF: 400/16000)
Build fun things, software and hardware

MORE

View the up-to-date version of this resume or learn more about me at **jackzhang.me/resume**