

MENGYU "JACK" ZHANG



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EDUCATION

2019 – 2022	University of Southern California GPA: 3.86/4.0 Machine Learning, Artificial Intelligence, Software Development, Discrete Math, Advanced Data Structures & Algorithms, Probability Theory, Computer and Network Security	B.S. - Computer Science
Summer 2019	University of California, Berkeley GPA: 3.75/4.0 Intro to Machine Learning, Operating Systems & Networking, Machine Learning, Linear Algebra	N/A (Summer Program)
2018 – 2019	University of California, Merced GPA: 3.75/4.0 Data Structures & Algorithms, Calculus, Computer Architecture, Computer Organization	B.S. (transferred) - Computer Science and Engineering

EXPERIENCES

Data Scientist /Research Assistant	Children's Hospital Los Angeles, Levitt Lab 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 eliminate/correct 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	Jan 2021 - Aug 2022 Part-time, since Aug 2022 Full-time
Software Developer Intern	Royal Bank of Canada, Amplify 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. The backend was built with Flask, frontend with react, and deployed via Kubernetes. Python / JavaScript / Flask / React / Kubernetes / DevOps / Jsonnet	Summer 2021
Teaching Assistant	University of Southern California, CS@SC 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	Jun 2020 - May 2021

PROJECTS

Personal Project Full Stack	Shopper 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	Since Oct 2023
Personal Project Android & Back end	"KnockKnock" 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++	Since Oct 2018
Project Lead Full Stack	GreatFinds 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	Sep 2020 to Nov 2020

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

SKILLS (IN APPROXIMATE PROFICIENCY 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, Firebase, Java EE, MySQL, 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

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