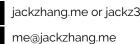


Los Angeles, CA



jackzhang.me or jackz314.me





## **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 Struc-

tures & 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. - Computer Science and Engineering** 

GPA: 3.75/4.0

Data Structures & Algorithms, Calculus, Computer Architecture, Computer Organization

**EXPERIENCES** 

Software Developer Royal Bank of Canada, Amplify

Summer 2021

Intern

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

Data Scientist

Children's Hospital Los Angeles, Levitt Lab ☑ under Dr. Pat Levitt

Since Jan 2021

/Research Assistant Machine Learning research with a focus on EEG data and signal processing. Primary goal: analyze and

eliminate unwanted noise from EEG data, build an ML pipeline that eliminates/corrects unwanted noise from EEG data (artifact correction) with an emphasis on infant data.

Machine Learning / Signal Processing / EEG / Python / MatLab

**Teaching Assistant** 

University of Southern California, CS@SC 2

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 guizzes and review questions for the students.

Python / Java / JavaScript

**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

Since Oct 2018

Sep 2020 to Nov 2020

Android & Back end

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 au-

dio/image processing steps.

Android / Kotlin / Java / WebRTC / Python / Firebase / PHP / C++

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

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

