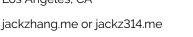




Los Angeles, CA

me@jackzhang.me



github.com/jackz314

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stackoverflow.com/u/8170714

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. (transferred) - Computer Science and Engineering

GPA: 3.75/4.0

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

EXPERIENCES

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 / Computer Vision / Python / EEG / MatLab

Intern

Software Developer 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 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.

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

Since Oct 2018

Purpose: solve the problems I had with video calling people in noisy or inconvenient situations. Android & Back end

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

GreatFinds ☑

Sep 2020 to Nov 2020

Full Stack 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

