CANYON ZHANG (301) 473-2179 | CANYONZH@USC.EDU

EDUCATION

University of Southern California AUG 2020 – MAY 2024 *B.S. Computer Science*
GPA: 3.76/4.0 | University Scholarship | Tuition Exchange Scholarship
Thematic Option Humanities Honors Program

Personal Portfolio: *https://www.canyonz.me/*

WORK EXPERIENCE

Intel Corporation — Software Engineer (Manufacturing Systems)
JULY 2024 – Present
- Developed an automation script for file transfer validation using Selenium and GitHub Actions, achieving a 12.5% productivity boost across multiple sites. *(Python, Javascript, Selenium WebDriver)*
- Designed and implemented a CI/CD pipeline with GitHub Actions to automate FOK tool installations, optimizing processes and reducing manual maintenance in wafer production systems. *(Python, PowerShell, SQL, Github Actions, CI/CD Workflows)*

IBM — Software Engineering Intern (Full-Stack)
MAY 2023 – AUG 2023
- Developed Notification Center and Navigation Bar for the Data Observation Platform in the Enterprise Performance Management subdivision, enabling data engineers and SMEs to monitor data validation tasks and streamline error discovery. *(Vue.js, Node/Express.js, NoSQL, CloudantDB/CouchDB)*
- Developed and deployed a pub-sub messaging system for monitoring job completion on an Apache Kafka pod used to populate tables in CloudantDB. *(Python, Kubernetes, Apache Kafka, Cloudant)*

AstraZeneca — Software Engineering Intern (Data)
MAY 2022 – AUG 2022
- Built an application to automate server resource allocation for AstraZeneca's data science teams, boosting efficiency and reducing wait times by 85%. *(Java, REST APIs)*
- Investigated outlier detection techniques and built classification models to improve data quality, facilitating the migration of clean data from Salesforce to Celonis for mining process bottlenecks in patient medication delivery. *(Python, Scikit-learn, TensorFlow)*

University of Southern California – Teaching Assistant
SEP 2022 – MAY 2024
- Hold weekly office hours to assist students with programming assignments and exam preparation, and help grade exams. *(Introduction to Operating Systems, Programming in Python)*

INVOLVEMENT

JEP Volunteer — Participated in the "Little Yoginis" community service program at USC. Led weekly yoga lessons with a kindergarten class, reading stories to them and connecting lessons from the books to our practice.

SKILLS

Languages — Python, TypeScript, JavaScript, C++, C, Java, HTML/SCSS, SQL, Powershell, NoSQL, Swift, Dart

Frameworks/Technologies — React.js, MySQL, git/Github, Next.js, Vue.js, Node.js/Express.js, TailwindCSS, Firebase, TensorFlow, Langchain/LLM, Flutter, Cloudant/CouchDB, Jira, MongoDB/Mongoose, AWS EC2, SwiftUI, Postman/Insomnia