

Simon Zhang

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EDUCATION

University of Southern California

Bachelor of Science in Computer Science GPA: 3.84

Los Angeles, CA

Graduated May 2023

EXPERIENCE

Software Development Engineer Intern

Amazon

May 2022 – August 2022

Seattle, WA

- Used React to reorder layout of the Kindle Vella storefront page with over 150k monthly active readers using React, improving conversion rate by 179 bps and click rate by 130 bps
- Created a weekly scheduled release calendar for Kindle Vella platform for customers to see upcoming episodes
- Developed Spring based HTTP endpoints for quick access to thousands of episodes based on launch date

Undergraduate Teaching Assistant for Computer Science Department

University of Southern California

August 2021 – May 2023

Los Angeles, CA

- TA'd two C++ based courses: Data Structures and Object Oriented Design, and Introduction to Programming
- Held weekly office hours to assist students in programming assignments
- Lead weekly lab sections of over 30 students to recap key concepts from lecture

Data Engineer Intern

Sailpoint Technologies

June 2021 – August 2021

Austin, TX

- Worked with data engineering team to research and assist in integrating Snowflake to Sailpoint's data infrastructure as part of transition from ETL to ELT
- Established CI/CD pipeline by creating and deploying a Docker container on Jenkins to pull SQL files from AWS S3 and automate execution of DDL commands on Snowflake
- Migrated existing data transform functions to Snowflake UDFs in Java, decreasing runtimes

Undergraduate Research Assistant

InfoLAB at USC

March 2021 – September 2021

Los Angeles, CA

- Created data preprocessing pipeline for ML research project to assign user GPS pings to points of interests
- Implemented StayPoint Detection Algorithm in Python - finds 50k points of interest from 2M+ GPS pings in 30s
- Created full stack Django web-app with SQL database to visualize GPS points and POI polygons using Google Maps API. Used to facilitate and streamline data labelling and collecting training data

Software Engineer Intern

Sterling Medical Devices

August 2018 – August 2019

Rochelle Park, NJ

- Created a web app based plugin for an ALM software (Polarion) using HTML/CSS, JavaScript, Java, and JSP
- Implemented verification checker and PDF export features to enhance and streamline document verification
- Resolved functionality and interface issues in external Apache Velocity scripts

TECHNICAL SKILLS

Languages: Python, C++, TypeScript/JavaScript, Java, SQL, C, HTML/CSS, \LaTeX

Technologies: AWS, React, NumPy, pandas, Django, Docker, Angular, Jenkins, Bootstrap, JSP, JQuery, git