Sum Xu

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Education

University of San Francisco   August 2018 – May 2021 (Expected)
M.S in Computer Science

University of California, Los Angeles   September 2014 – June 2018
B.S. in Integrative Biology and Physiology
Dean's Honor List: 2015, 2016, 2017, 2018

Work Experience

YokD   May 2020 – September 2020
Software Engineer Intern
- Developed the YokD Trainer iOS application in Swift to connect personal trainers with users.
- Set up the profile creation flow including registration and login.
- Created a seamless flow from onboarding to core app functionality involving scheduling and connecting users.
- *Stack: Swift, Microsoft SQL Server*

University of San Francisco
Web Developer   June 2019 – May 2020
- Built and edited web pages for clients on both the University of San Francisco marketing and internal sites.
- Performed audits for web accessibility and quality assurance.
- *Stack: JavaScript, HTML, CSS, Drupal*

Graduate Tutor   September 2018 – June 2019
- Tutored students in introductory computer science courses and taught them basic concepts and data structures in Java.
- Assisted students in debugging code and thinking through software development ideas at a high level.
- Taught and encouraged good coding practices to students.

Technical Projects

Energy Aware Data Center
- Worked with sponsors from VMWare and developed a proof of concept of an energy aware data center to address the issue of excessive energy consumption in modern data centers.
- Built the feature *Mercury*, the power service of the system that adjusts the workloads in a Kubernetes cluster given an energy signal, by utilizing the Kubernetes Go Client.
- Developed a UI in React for users to give an energy signal input and used Prometheus and Grafana to visualize energy consumption.
- *Stack: Kubernetes, Golang, Google Cloud Platform, React, Prometheus, Grafana*

On-Demand Health and Fitness Services Mobile Application
- Led a team of three to build a mobile application that targets users who want to stay active by connecting them with health and fitness providers, on-demand and on-the-go.
- Features include authentication using JSON Web Tokens, creating/editing profiles, posting and viewing services, and payments with the integration of the Stripe API.
- *Stack: React Native, Node.js, MongoDB, Express*

Movie Recommendation Web Application
- Built a web application using Jetty servlets that allows for users to create a profile and rate movies, and stores user info in a database.
- Based on the rated movies that the user rated, the program uses a collaborative filtering approach to give the user specific movie recommendations.
- *Stack: Java, HTML, MySQL*

Technical Skills

- Languages/Technologies: Java, Python, Swift, JavaScript, Node.js, React Native, React, Golang, C++, C, SQL, NoSQL, R, HTML, CSS, Git