Susan Yang

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I'm an undergraduate student at the University of Washington-Seattle. My expertise lies in software engineering, mathematics and data. I've worked extensively with Python and Java while working on my projects and during my summer internships. I'm currently seeking off-cycle internships and full-time positions starting June 2022.

EDUCATION

University of Washington, Seattle, Washington   Graduation Date: 2022
Bachelor of Science, Mathematics
Bachelor of Science, Informatics - Data Science   GPA 3.7/4.0

SKILLS

- **Programming Languages:** Python, Java, Golang, JavaScript, R, MATLAB, HTML, CSS
- **Database:** MongoDB, AWS suite, DynamoDB, SQL, MySQL, JDBC
- **Libraries and frameworks:** Node.js, d3.js, Express, React.js

EXPERIENCE

University of Washington   **Teaching Assistant**   **Sept. 2021 – Now**
- Course taught: INFO 474 – Interactive Information Visualization
- Assist professor and advise 40 students each quarter regarding class material, assignments; analyze student projects, advise design and accessibility decisions to develop well-rounded d3.js projects

Twitch   **Engineering Intern**   **May.2021 – Aug. 2021**
- Worked on the Ads team, using Golang to implement full stack feature that rewards viewer channel points when voting in multiplayer ads, integrating with multiple backend services and AWS
- Create A/B testing to study the effect of reward on viewer participation rate to improve engagement

Clipboard Health   **Intern**   **Jun. 2020 – Sep. 2020**
- Implement new COVID stats feature in React app that pulls 600K rows of COVID data from Center for Medicare and Medicaid Services, and design data display, directly resulting in reduction in customer complaints and shortening the lengthy process of shifts booking
- Perform data analysis using MySQL and MongoDB to create churn, retention, reengagement analysis and cohort analysis; create visualization that helped project manager devise customer loyalty and re-engagement strategy

Little Master Club, Bellevue, WA   **Lead Volunteer**   **May 2018 - Aug. 2018**
- Lead a team of volunteers to plan and organize fundraising events, negotiate with 10+ local sponsors to raise funds for educational support trip and robotics equipment
- Make lesson plans and teach coding and robotics to students of underdeveloped areas of China

PROJECTS

Netflix Data Analysis and Visualization   **Team Member**   **May. 2020 - Jun. 2020**
- Collect and clean up datasets of Netflix movies and shows, then combine with IMDB data from IMDB API to find patterns in Netflix original vs nonoriginal shows
- Using d3.js to aggregate, filter and analyze data; create visualization with linear regression analysis, showcasing statistic, correlation, distribution, and regression of viewers' preferences, genres, popularity, etc.
- Done in JavaScript, Project link https://observablehq.com/@xuanry-1839230/final-deliverable

Flight Booking Application   **Team Lead**   **Mar.2020 - Mar.2020**
- Create flight booking application in Java via JDBC, with data stored on Azure. Filters for best flights and enables user to login, book, cancel and pay. Ensure concurrency using transactions so that multiple users can use the service concurrently.
- Done in Java and SQL.

RELEVANT COURSES

- Data Structure and Algorithm
- Database Management
- Interactive Info Visualization
- Intro to Artificial Intelligence
- Statistical Methods
- Probability
- Linear Algebra and Numerical Analysis
- Discrete Mathematical Modeling
- Linear Optimization

ACTIVITIES and AWARDS

- Participated in West Coast Regional Terminal Competition hosted by Citadel
- 2nd place in Data Analysis in 2020 UW's DubsTech Datathon Competition
- Annual Dean's List