Yun Zhou

Seattle, WA ● 612-615-4486 ● yz2685@cornell.edu ● linkedin.com/in/annyunzhou/ ● github.com/annsway

Summary: Specialized in Java, Python, JavaScript, SQL, HTML, CSS, data structure & algorithms, backend & frontend web frameworks, OOP, database systems (RDBMS, NoSQL); looking for Software Engineer/Data Engineer roles

Education

Cornell University, *College of Computing and Information Science*   Ithaca, NY
Master's Degree in Information Science (GPA: 4.186/4.0)   Expected: May 2023

University of Minnesota - Twin Cities, *College of Liberal Arts*   Minneapolis, MN
Bachelor's Degree in Statistics (GPA: 3.5/4.0)   Graduated: Dec 2016
Dean's List (Spring 2014, Spring 2016); Maroon Global Excellence Scholarship (2014 – 2016)

Work Experience

TISTA – *IT services and consulting company for public sectors and commercial clients*   Remote
Software Engineer Intern   Feb 2022 – May 2022
- Developed backend APIs for a blockchain donation website using **React** Router, **Node.js**, and **web3.js**
- Built **MongoDB** database to store the encrypted user data, donation projects, and donation history
- Implemented authentication system with **Firebase** Authentication API with React Hooks and React Context
- Estimated to deliver a transparent, low transaction fee, and efficient donation platform to help 18M+ Americans

HealthPartners, Inc. – *Leading healthcare services and insurance company in Minnesota*   Bloomington, MN
Epic Clarity Business Analyst   Jul 2017 – Sep 2021
- Wrote advanced **SQL** DML scripts to query from millions of EHR data derived from Epic and EnterpriseRx
- Built and managed dashboards/reports in Tableau & SAP Crystal Reports for 50+ clinics, pharmacies & hospitals
- Used **data modeling** and **ETL** tools (SSIS) to integrate pharmacy data to improve reporting accuracy by 25%
- Developed SQL procedures and functions to reduce repeated work; optimized query performance by 80%

Project Experience

NLP Project Using 10-K Financial Reports to Classify Stock Performance   Apr 2022 – May 2022
- Scraped 300+ 10-K reports and historical stock prices using Selenium and BeautifulSoup API in **Python**
- Performed sentiment analysis using Python Pandas, NumPy on 6M words from the *Risk Factors* in 10-K reports
- Trained and tested SVM, Logistic, and Random Forest classifiers with NLP features using skLearn and spaCy
- Utilized feature engineering to identify the text features to classify the NASDAQ-100 stock performance

Full Stack Car Dealership Website   Sep 2021 – Dec 2021
- Built interactive car sales/search/inventory/reports pages using React, Axios, Ant Design, and **HTML/CSS/JS**
- Designed and implemented a **MySQL** database schema using DDL and DML SQL queries and hosted it in AWS
- Developed the CRUD functions in the backend using **Spring MVC** and JDBC API
- Utilized **Docker** to containerize the services to achieve scalability of handling the increased user requests

Web Development and Visualization for A Rideshare Startup   Jun 2021 – Aug 2021
- Integrated the crime data analysis with Google Map APIs based on the riders' locations using **JavaScript**
- Implemented the **NoSQL** database on Cloud Firestore to host the crime data reported by the users
- Built the crime data visualization pages using Chart.js, Bootstrap, and JavaScript for crime data analysis

Skills

- **Languages & Tools:** Java, Python, JavaScript, Git, Unit Testing, Docker, Firebase, AWS, Linux
- **Front-end:** React.js, HTML, CSS, D3.js, Bootstrap, Material-UI, Ant Design, JSON, Ajax/Axios
- **Back-end:** Node.js, Express.js, Spring Boot, Python Flask, Object-Oriented Programming, RESTful APIs
- **Database:** SQL, MySQL, NoSQL, MongoDB, Firebase Database, Oracle PL/SQL, SQLAlchemy, SQLite, SSIS
- **Data Science:** R, Python (Pandas, NumPy, skLearn, spaCy), Machine Learning, NLP, Tableau