

Xiaowei (Hazel) Feng



GHC 23 Attendee

Authorized to work for any US employer

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in Xiaowei(Hazel) Feng

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Education

M.S. in Computer Science, Georgia Institute of Technology, GPA 3.8

2022.8 - now

Related Coursework: Software Development Process, Database System Concepts and Design, Introduction to Information Security, Computer Network, Software Architecture and Design

M.S. in Business Analytics (Data Science Track), The University of Texas at Dallas

2018.8 - 2020.12

Expertise and Skills

Programming Languages Java, Python, C++, SQL, HTML, CSS, JavaScript, Bash

Frameworks Flask, Spring Boot, Django

Databases and Tools MySQL, PostgreSQL, MongoDB, Git, Docker, Maven, Gradle, JUnit, Android Studio, AWS

Project Experience

Grocery Express Delivery App

2023.5 - 2023.8

- Utilized *Spring Boot* and *Maven* in *Java* to create a robust and interactive backend system, implementing key features such as *ordering* and *return management*, *inventory management*, *order assignment*, and *delivery scheduling*
- Conducted an *object-oriented analysis* and utilized *UML* and *sequence diagram* to visualize the system design of a grocery delivery App
- Ensured the privacy of user data by implementing *authentication* and *authorization* mechanisms using *Spring Boot*'s robust *security features*
- Designed the database schema to store and retrieve data efficiently, achieving seamless integration with *Spring Data JPA* for database operations
- Deployed the App and *MySQL server* in *Docker* to execute the test scenarios for functional and unit testing, enabling thorough validation of system functionalities

Household Insight Web App

2022.8 - 2022.12

- Developed features in the *Flask framework* using *Python* to track various characteristics of households and allow users to view different reports based on their inputs
- Designed and optimized the database architecture using *MySQL* and *MariaDB* as the efficient database management system, ensuring secure and efficient storage of data collection
- Implemented the frontend of websites using a combination of *HTML*, *CSS*, *JavaScript*, and *Jinja2* templates

Job Comparison Android App

2022.9 - 2022.11

- Built *Java* functions to compare and rank jobs, enabling the App to offer tailored job recommendations to users based on their preferences
- Designed and optimized the user interface in *Android Studio*, creating an intuitive and user-friendly experience for App users
- Applied *automation UI testing* and *functional testing* using *Espresso* and *JUnit*, ensuring that the App was performed well across different devices and platforms

Text Processor

2022.9 - 2022.12

- Developed a command-line text processing utility in *Java* using the *Agile methodology*
- Implemented various text processing functions in the application, including case-insensitive, suffix-adding, substring-keeping, replacing, padding, and output-saving functions, *without relying on third-party packages*
- Employed the *category partition* approach to design the *Black-Box testing*, ensuring comprehensive testing coverage and identifying any potential errors in the application
- Constructed a test framework and developed test cases to verify the correct behavior and performance of the application using *JUnit*, achieving *high test coverage*

Work Experience

CalAmp, Richardson, TX

2020.5 - 2022.2

Analyst, Operation and Data

- Developed an *automated ETL pipeline* using *Python* and *AWS Athena* to load and clean *7 million data* from IoT devices into *PostgreSQL*
- Created a *multi-threaded data retrieval tool* in *Python*, enhancing efficiency through *concurrent data* fetching from *REST APIs*, error handling, and collaborative integration with team members
- Built a high-performance data pipeline in *Python*, implementing *concurrent writing* and *buffering techniques* to optimize data transfer from an *FTP server* to *PostgreSQL*