

# Xiaowei (Hazel) Feng

GHC 23 Attendee

Authorized to work for any US employer

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in Xiaowei(Hazel) Feng

## 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, Shell

**Frameworks** Flask, Spring Boot, Django

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

## Project Experience

**Grocery Express Delivery App**

2023.5 - 2023.8

- Conducted an *object-oriented analysis* and utilized *UML* and *sequence diagram* to visualize the system design of a grocery delivery service
- 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*
- 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 *system* and *MySQL server* in *Docker* to execute the test scenarios for functional and unit testing, enabling thorough validation of system functionalities

**Data Collection Web App**

2022.8 - 2022.12

- Developed the backend of a website using *Python and the Flask* framework, facilitating seamless database interactions
- Designed and optimized the database architecture using *MySQL and MariaDB* as the efficient database management system, ensuring secure and efficient storage of collected data
- Implemented the frontend of websites using a combination of *HTML, CSS, JavaScript, and Jinja2* templates

**Job Comparison Android App**

2022.9 - 2022.11

- Designed and optimized the user interface in *Android Studio*, creating an intuitive and user-friendly experience for app users
- Built a set of functions in *Java* for comparing and ranking jobs, enabling the app to provide more personalized job recommendations to users based on their preferences and qualifications
- 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*