ZIWEN MING

Bothell, WA | 3mingziwen@gmail.com | 541-740-1904 | www.linkedin.com/in/ziwenming

EDUCATION

Master of Computer Science GPA: 4.0/4.0 **Expected 12/2024**
Georgia Institute of Technology (Remote)

Courses

- Data Structure & Algorithm
- Software Architecture Design
- AI for Robotics
- Database Management
- Computer network

Certificate in Computer Science Fundamentals GPA: 4.0/4.0 **01/2022 – 12/2022**
Seattle University – Seattle, WA

Bachelor of Food Engineering (B.E.) **Graduated 06/2015**
Huazhong Agricultural University – Wuhan, China

SKILLS

- Programming Languages: Java, Python, C++/C, C#, R, Shell scripting, SQL, JavaScript
- Databases: H2, MySQL, MongoDB, SQL Server
- Web Development: HTML, CSS, Bootstrap, Vue.js, Node.js
- Tools: Git, Docker, VS Code, Linux/Unix, Bash, JetBrains, Swagger, AWS

PROJECTS

Software Application Developer - *Grocery Express Full Stack Service* **03/2023 - 05/2023**

- Designed, developed, and tested a secure drone delivery service system using the **MVC** architectural pattern
- Collaborated with team members to develop user authentication and authorization functionality and employed Java and **Spring Boot** to develop **RESTful APIs**, utilizing a **MySQL** database and secure password hashing for data security. Utilized **Vue.js** to create user interfaces for the front-end and **Docker** to containerize the application and simplify deployment, ensuring consistent performance across different environments.
- The backend was deployed on **AWS** EC2, the frontend static site hosted on S3 bucket, and MySQL on RDS, establishing a reliable and scalable infrastructure.

Project Manager/Web Developer- *Stock Portfolio Management* **12/2022 - Present**

- Designing a full-stack web application for individual stock management providing details in gain or loss in individual stocks.
- Developing user-oriented visuals and features by front-end languages, including **HTML, CSS, JavaScript** and DOM manipulation in jQuery and set up server ExpressJS and NodeJS framework. Implementing queries on the **MongoDB**.

Project Manager/Database Developer - *MyRaceSignUp.com* **03/2022 - 06/2022**

- Designed a racer signup system to help to identify race events and trace the results of previous events.
- Developer on a team of 4, leading and promoting the project, working on design, implementation and testing.
- Designed racer database, implementation, and testing of the **ETL** flow for a JDBC application to manage race database. Extracted data form MySQL database through **JDBC** API and execute queries as well as loading data in GUI/console version. Generated summary reports based on user request.

WORK EXPERIENCE

Bioinformatician – *IEH Laboratories & Consulting Group - Seattle, WA* **12/2021 – Present**
  Bioinformatics Pipeline Design

- Redesigned a **Python-based** data processing pipelines based on updated work requirement which achieved automation of bioinformatics sample analysis and variation assessment for routine clients' samples analysis.
- Collaborates on a team of 3 working on the design, implementation and debugging of the related pipelines
- Implemented a **web scraping** program by **Selenium** that extracts URLs from JavaScript web pages, and downloads data from web server for assessment pipeline. Pipelines achieved an 150 % increase in customer's daily production.