

# Zoe Ming

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## EDUCATION

**Master Science of Computer Science (M.S)** GPA: 4.0/4.0 **01/2023 - Expected 05/2025**

Georgia Institute of Technology

**Master Science of Food Science (M.S)** GPA: 3.76/4.0 **Graduated 03/2018**

Oregon State University

## SKILLS

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

## WORK EXPERIENCE

**Bioinformatician** – *IEH Laboratories & Consulting Group - Seattle, WA* **12/2021 – 01/2023**

- Led a team overhaul of a Python **data pipeline** for analyzing bio-related data in Ubuntu, skyrocketing daily production by 150%.
- Engineered an agile **Selenium** scraper by python, reducing internal database update times by 60%.
- Revitalized legacy C# .NET software for precise machine detection, ensuring alignment with client needs.

## PROJECTS

**Movie Idea AI Generator** *ChatGPT, Dall-E, JavaScript, Node.js* **04/2023 - Current**

- Engineered a chatbot for movie script and stage photo generation seamlessly integrate **OpenAI APIs**
- Trained the chatbot for enhanced innovative and contextually relevant content generation.
- Created a user-friendly frontend, optimizing user interaction for script and visual content development.

**Grocery E-commerce Web App with Drone Delivery** *Java, Spring Boot, MySQL, Vue.js* **03/2023 - 05/2023**

- Spearheaded a web-based full stack e-commerce application by **MVC** framework.
- Innovated a drone delivery system with strategic refueling to boost efficiency.
- Designed a robust system for user authentication and authorization by Spring secure.
- Containerized on **Docker**, and deployed the system on **AWS** (EC2, S3, RDS), achieving a 40% boost in delivery speed amidst integration challenges.

**Android App for Job Proposal Evaluation** *Java/Kotlin, SQLite, XML* **09/2023 – 11/2023**

- Developed an agile Android application in Android Studio for job offer assessment.
- Leveraged **Espresso** for UI tests and JUnit for backend validation.
- Implemented a local database for seamless data storage and retrieval.
- Achieved a 50% improvement in performance, ensuring swift data processing and offer comparisons.

**Artificial Intelligence for Robotics** *Python, NumPy, Pandas* **05/2023 - 07/2023**

- Spearheaded AI initiatives for meteorite tracking, satellite localization, drone steering, robot navigation, and environment mapping.
- Mastered the deployment of Kalman/particle filters, PID controllers, search policies, and SLAM techniques.

**Racer Event Data Management System** *JDBC, MySQL, ETL, GUI* **03/2022 - 06/2022**

- Centralized platform streamlining racer event database management and participant registration.
- Facilitated real-time event identification and maintained an archive of historical race results.
- Leveraged robust database technologies with **ETL** processes for efficient race data handling.
- Offered versatile GUI and console interfaces, accommodating users of varied technical expertise.