MEIYI GUANG

meiyiguang0@outlook.com| (206)-227-3268 | linkedin.com/in/meiyi-guang-27b50518b | github.com/Crystal0GMY

EDUCATION

NORTHEASTERN UNIVERSITY, Seattle Campus, WA   **September 2023-Present**
- **MS in Computer Science**, GPA: 4.0/4.0   *Expected Graduation: May 2026*

WASHINGTON UNIVERSITY IN ST. LOUIS, St. Louis, MO   **September 2021-December 2022**
- **MS in Finance – Wealth and Asset Management**, GPA: 3.83/4.0
- Charles F. Knight Scholar (Top 7.5%); Member of the Beta Gamma Sigma Honor Society (Top 20%)

SHANGHAI UNIVERSITY OF FINANCE AND ECONOMICS, Shanghai, China   **September 2017-June 2021**
- **Bachelor of Science in Finance**, GPA: 3.64/4.0

PROFESSIONAL SKILLS

- Programming Languages: Java, Python, JavaScript, HTML, CSS, SQL, R, C, Swift, Typescript
- Database: MySQL, MongoDB, Mongoose
- Tools and Frameworks: Spring Boot, Django, Express.js, Node.js, React, Postman, Git, JUnit, Axios, Heroku, UIKit, Codable

INTERNSHIP

Si-Tech Information Technology Co. Ltd., Chengdu, China   *Backend Engineer Intern*   **June 2024-August 2024**
- Designed and developed **APIs** using **Java** and **Spring Boot** to implement ticketing platform functions, including generating Excel spreadsheets for visualizing sales reports, order modification, and refunds, improving the efficiency of sales data processing and enhancing data accuracy for clients by 30%.
- Implemented **Mybatis** as the framework for object-relational mapping and wrote complex **SQL** queries to retrieve, aggregate, and analyze sales data, delivering insights that supported strategic decision-making.
- Increased test coverage to 90% using **JUnit**, ensuring thorough validation of API functionality and enhancing code reliability. Also performed manual testing on multiple APIs using **Postman**.
- Identified and resolved a bug in Alibaba's EasyExcel related to character width adjustments, where UTF-8 byte lengths caused cell widths to misalign for different character types, ensuring accurate column formatting for large datasets.
- Researched and implemented solutions to processing large datasets in a streaming manner, reducing memory consumption and file generation time by 50%, ensuring scalability for high-volume sales reports.
- Documented API endpoints and system architecture using **Postman**, creating clear guidelines and reference material for the development team to enhance understanding of API usage and integration processes.

PROJECTS

Smart Study – AI-Powered Learning Management System, Seattle, WA   **March 2025**
- Developed a structured learning management system leveraging on-device AI to provide personalized study plans, interactive quizzes, and progress tracking.
- Engineered a React/TypeScript frontend with Material UI for a seamless and responsive user experience, integrated with a Flask backend utilizing an SQLite database for efficient data management.
- Implemented local LLM integration via AnythingLLM to enable real-time content analysis and adaptive learning offline, alongside Edge AI-powered practice question generation and study plan creation for optimized accessibility and privacy.

Real-Time Civilian-Cop Help Request System, Seattle, WA   **September 2024-October 2024**
- Developed a full-stack web application using **Node.js, Express.js, React,** and **MongoDB** to ensure real-time communication during emergencies, leveraging **Socket.io** for instant data exchange and event-driven communication.
- Created an interactive map interface with **React**, **Mapbox GL JS**, and **Mapbox Geocoder API** for location searches, enabling civilians to share their location. Developed a heatmap feature to visualize the density of help requests, enhancing situational awareness for cops.
- Designed and built **RESTful APIs** with **Mongoose** for managing database schemas, and facilitating operations like processing help requests, fetching nearby cops, and notifying civilians about the status of their requests.
- Utilized promise-based HTTP client **Axios** for asynchronous API requests, enabling the user interface to dynamically fetch or send data and improve user experience through real-time updates, such as reflecting status changes without reloading the page.

Bitcoin Ticker App & Flash-Chat App, Seattle, WA   **April 2024-May 2024**
- Built an iOS application using **Swift** to display real-time Bitcoin prices fetched from the CoinDesk API, integrating external data and enhancing user engagement with cryptocurrency trends.
- Developed a real-time messaging application using **Swift** and **Firebase**, implementing Firebase Realtime Database for seamless message syncing and user data management, and utilizing Firebase Authentication for secure user sign-up and login.
- Managed network requests and JSON data parsing using URLSession and Codable, ensuring efficient API communication.
- Designed user-friendly interfaces with **UIKit** for both applications, providing smooth and intuitive user experiences.