JING WANG

J (919) 491-9302 **☑** jw844@duke.edu **☐** linkedin.com/in/jing-wang-34520628b **◯** https://github.com/OrangelineE

Education

Duke University, Durham, NC

May 2024

Master of Engineering in Electrical and Computer Engineering

GPA: 3.9/4.0

University of Glasgow, Glasgow, United Kingdom

June 2022

Bachelor of Engineering in Electronics and Electrical Engineering

Honours of the First Class

University of Electronic Science and Technology of China, Chengdu, China

June 2022

Bachelor of Engineering in Electronics and Electrical Engineering

GPA: 3.74/4.0

Technical Skills

Languages: C++, Java, C, SQL, Python, HTML/CSS, JavaScript

Development Tools: GitHub, GitLab, Jira, CI/CD, Docker, Bash, Perl, Maven, Gradle, Postman, Tomcat, Figma

Systems & Frameworks: Linux (Ubuntu), JUnit, Spring MVC, Mybatis, Springboot, MySQL, PostgreSQL, Flask, AWS (EC2, Lambda, Speech Recognition), Azure (Web App Service, Speech Recognition), RESTful API, VMware, WireShark

Experience

Software Backend Developer Intern | Trip.com Group

May 2023 - August 2023

- Developed a **SpringMVC**-based project management reporting website, reducing reporting time from 30 to 5 minutes.
- $\bullet \ \ \text{Implemented employee query features, enhancing data\ retrieval\ speed\ by\ processing\ \mathbf{HTTP\ requests}\ for\ \mathbf{JSON}\ data.$
- Integrated Webhooks to capture change event payloads and store them in Mybatis for real-time data updates.
- Conducted JUnit and Postman **API testing** for bug detection and resolution. Utilized Tomcat and Java for remote debugging with breakpoints and employed **LOGGER** for detailed problem tracking and analysis.

Software Test Intern | Chengdu Super Love Technology Co., Ltd

February 2022 – May 2022

- Achieved a 100% on-time delivery rate through the management of tasks and timelines in agile development using Jira.
- Reported and resolved over 200 product defects by working closely with **cross-functional** teams including developers, product managers, and designers, actively participating in product reviews and crafting test cases.
- Utilized Postman and vConsole for thorough troubleshooting and assessment of product functionality.

Projects

Live AI Hackathon [Joint Duke - Havard]:Panacea Mind | Python, React/Native

March 2024

- Directed the development of 'Panacea Mind', an AI-driven mental wellness app that analyzes user speech, providing sentiment charts, reports, and mental illness suggestions, using React/Native for front-end and Python for back-end.
- Utilized AWS services including speech recognition and NLP to analyze user speech tone and sentiment.
- Ensured 100% data security and compliance by implementing ethical AI practices, reducing potential issues.
- Managed the team and project timelines, contributing to the project winning awards for **Best AI** and **Best Design**.

Mini Amazon System Project | Python, HTML/CSS

March 2024

- Designed a online marketplace using Python, Flask, and **PostgreSQL**, and HTML/CSS, replicating key functionalities of Amazon including user account management, product listings, and transaction processing.
- Implemented cart and order functionalities, managing real-time inventory checks and transaction processing.
- Designed the table schema and built a large database with realistic data, using pagination for extensive content.
- Coordinated updates and features using GitLab, hosting meetings, assigning tasks, and ensuring alignment with goals.

Really Interesting Strategic Conquest | Java

April 2023

- Crafted a multi-player combat game with movement, upgrade, and attack features, employing S.O.L.I.D principles and design patterns such as Abstract Factory and Chain of Responsibility for diverse territories and game mechanics.
- Outlined project architecture and created UML diagrams, managing code via GitHub version control and peer reviews.
- Managed project in Jira, achieving 3 evolutions and ensuring timely delivery through effective communication.

Implementation of malloc and free | Data Structure, C++

February 2023

- Designed a metadata structure and used the **sbrk** function for efficient **heap** memory allocation, implementing both standard and **thread-safe** versions of malloc and free for safe multi-threaded memory allocation.
- Implemented Best-Fit and First-Fit strategies to find suitable memory blocks, optimizing allocation.
- Realized a 75% fragmentation rate by splitting memory blocks from larger ones and merging adjacent available blocks.