Yifan Jiang

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EDUCATION

Duke University

M.Eng. in Computer Engineering | Concentration: Software Development

Durham, NC

University of Liverpool

Sep 2018 – Jul 2022

Aug 2022 - May 2024

B.S. in Information and Computing Science | GPA: 3.81/4.00 | First Class Honour

Liverpool, UK

TECHNICAL SKILLS

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

Frameworks: Vue.js, AngularJS, React.js, Node.js, Django, Spring Boot, Maven, OpenGL, Unity, PyTorch

Developer Tools: Docker, Git, Linux, GDB, Valgrind, MySQL, PostgreSQL

EXPERIENCE

Software Engineer Intern

May 2023 – Aug 2023

Advanced Institute of Information Technology, Peking University

Hangzhou, China

- Utilized **Vue.js** and **TypeScript** to develop the front-end UI for a power supply e-commerce website. Implemented various features, including search, query, smart recommendations, login/registration, and pagination.
- Practiced Agile methodologies to collaborate with the back-end team for interacting with REST APIs and with
 the product team for aligning project requirements from customers.
- Resulted in a launch with a user base exceeding 10,000 in a few months and an 80% increase in web traffic by integrating the developed website into other projects.

Software Engineer Intern

Jun 2021 – Sep 2021

Hikvision Digital Technology Co., Ltd.

Hangzhou, China

- Implemented customer-driven website features using **AngularJS** and **Vue.js**, enhancing the Starbucks monitoring system and introducing a critical mask detection feature, significantly enhancing safety measures.
- Deployed the system across **500** stores successfully, serving approximately **10,000** daily visitors, and achieved an impressive adoption rate of **95%** for the mask detection functionality.
- Played a pivotal role in the development of engineering tools and the enhancement of infrastructure components.

PROJECTS

RISC Game | Java, JavaFX, TCP Socket, CI/CD, Mockito, Docker

Feb 2023 – Apr 2023

- Organized a team of 3 to develop a multi-player game which enabled users to attack territories and obtain resources, move and upgrade soldiers. Developed backend server with **Java** and frontend UI with **JavaFX** and **MVC**.
- Added concurrency to deal with multiple players and used **TCP sockets** for server-client communication.
- Attained 100% unit test coverage leveraging Mockito and a CI/CD pipeline with thorough end-to-end tests.
- Applied **OOP** principles to design and draw UML diagrams and prototypes for effective system visualization.

Mini Amazon | Python, Diango, PostgreSQL, Protocol Buffers, Bootstrap

Apr 2023 – May 2023

- Utilized Django and PostgreSQL to build a scalable full-stack web application simulating Amazon.
- Applied **Protocol Buffers** to establish efficient and reliable communications across different warehouse simulators and delivery systems, leading to an 82% increase in simulation efficiency.
- Employed **TCP sockets** to maintain app functionalities and performance under various simulation speeds.

HTTP Caching Proxy $\mid C++, Emacs, GDB, Valgrind, Docker, Git$

Feb 2023 – Mar 2023

- Developed an HTTP caching proxy server in C++ under Emacs command-line development environment, supporting GET, POST, and CONNECT requests with efficient GET response caching.
- Enhanced server responsiveness with multi-threading and locks, accommodating up to 100 concurrent requests.
- Established RAII for memory management and conducted debugging with GDB and Valgrind's Memcheck to maintain system stability.

On Campus Social Network System | Vue.js, Spring Boot, MySQL, Redis, PyTorch

 $Mar\ 2021 - Jun\ 2021$

- Directed a team of 7 to develop a feature-rich social network platform employing **Vue.js** and **Spring Boot**.
- Established the platform leveraging **Spring Boot**, **Maven**, **Redis**, **MyBatis**, and **MySQL**, encompassing advanced functionalities such as search, filter, sort, real-time chat, post creation, and comment management.
- Implemented a recommendation algorithm using **PyTorch** for personalized content suggestions.
- Attracted 500+ users within two weeks post-relaunch, demonstrating rapid user adoption.