YUTONG SUN

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Education

Galway University   **Sep 2023 – May 2024**
Higher Diploma Science in Software Design & Development   *Galway, Ireland*
- Coursework: Java Programming, Computer Networking, Operating System, Data Structures and Algorithms, Database
- led a team of 3 in developing a ticket booking system, implementing 6 design patterns and RESTful APIs, assigning tasks, hosting regular meetings, and conducting code reviews to ensure progress and quality

Donghua University   **Sep 2019 – May 2023**
BA in Economic & Japanese Literature   *Shanghai, China*
- Recipient of First-Class Scholarship (Top 2% of students) in September 2022 and June 2023

Skills

Programming Languages: Java, Python, C, SQL, JavaScript, TypeScript, HTML/CSS
Frameworks: Spring Boot, Spring Cloud, JUnit, Hibernate, Vue.js, Fast API, Flask
Databases: MySQL, PostgreSQL, Redis, MongoDB
Tools: Git, Docker, Kubernetes, Nginx, AWS (RDS, S3, EC2), Agile, GitHub Actions

Experience

Longqi Software   **Jun 2022 – May 2023**
Software Engineer Intern   *Shanghai, China*
- Developed back-end systems using **Java EE** standards, **Spring Boot**, and **Hibernate** for efficient database management, while optimizing **RESTful APIs** to enhance front-end integration and seamless data exchange
- Implemented **CI/CD pipeline** using **GitHub Actions**, automating build, testing, and deployment processes for static web apps on **AWS Cloud**, improving development efficiency and reducing manual effort by **60%** through workflows

Flyco China   **May 2023 – Aug 2023**
Front End Developer Intern   *Shanghai, China*
- Actively engineered and contributed to the development of the front end of a cross-platform mobile application for both iOS and Android, utilizing **Dart** and the **Flutter** framework to create a responsive and high-performance user interface
- Worked with **Google Firebase** to manage and synchronize data across multiple platforms, including web and mobile apps, ensuring updates, secure storage, and seamless accessibility, improving data synchronization speed by **30%**
- Collaborated closely with cross-functional team members to design, develop, and deploy **3 major app features**, enhancing functionality, user experience, and performance, contributing to a **15% increase in user engagement**

Projects

Full-stack Takeaway Platform | *Spring Boot, Redis, Docker, Kubernetes*
- Developed a full-stack takeaway platform, integrating web and mobile apps for both iOS and Android to manage customer orders, payments, delivery tracking, and real-time notifications for customers and delivery personnel
- Implemented the backend with **Spring Boot**, **MyBatis**, and **MySQL**, ensuring robust data management, optimized query performance, and smooth integration with front-end services, enhancing overall system efficiency and reliability
- Designed and developed a responsive frontend using **React**, **Redux**, and **Ant Design**, optimizing the interface for improved user interaction, supporting smooth performance even under high traffic, and ensuring seamless scalability
- Built cross-platform mobile applications with **Flutter**, ensuring seamless operation across iOS and Android platforms with optimized performance for large user bases, while implementing state management and reducing app load times
- Utilized **Docker** and **Kubernetes** for deployment, ensuring a scalable and resilient infrastructure that can support **over 1000 concurrent users** without performance degradation, while enabling seamless updates, efficient resource management, and automated scaling to handle peak traffic and ensure high availability in production environments
- Implemented role-based access control (RBAC) with **Spring Security**, ensuring secure and efficient management of different user roles while supporting high-concurrency environments, enhancing application security by restricting unauthorized access, optimizing performance under heavy traffic by **30%**, and ensuring data integrity across the system, with **90% uptime** in production.

AI-powered Chatbot | *Python, LangChain, Streamlit, Pinecone, OpenAI*
- Created an AI-powered chatbot system using **Python**, capable of handling complex queries and continuously learning from conversations to improve response accuracy
- Developed a user-friendly front-end interface for building and training chatbots, integrating with messaging platforms like Messenger and Slack, with a **50% improvement in response time**
- Implemented **AWS S3** for image storage and deployed the platform on **AWS EC2**, with Docker and Nginx