Jiangjian Xie

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EDUCATION

M.S. in Electrical and Computer Engineering   **Boston University**
September 2023 – December 2024 (expected)

B.S. in Electrical and Electronic Engineering   **University of Nottingham**
September 2019 – June 2023

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, Kotlin, SQL, Go, C, C++

Web Development: Java Servlet, React, Node.js, HTML & CSS

Database/Big Data Engineering: PostgreSQL, MySQL

Frameworks: Spring

Cloud computing: AWS APP Runner, Google APP Engine

PROJECTS

OnlineOrder: A Spring and Hibernate based online food ordering system
(Extracurricular project, June, 2023 – August, 2023)
- Architected the project with a clear separation of concerns into controller, service, and repository layers, utilizing dependency injection for enhanced maintainability.
- Developed CRUD REST APIs using Spring Controllers, encompassing functionalities such as registration, menu searching, ordering, and checkout.
- Leveraged Spring Data JDBC and repositories to interface with a PostgreSQL database hosted on AWS RDS, handling data related to menus, restaurants, and more.
- Implemented application authentication via Spring Security, employing session-based authentication mechanisms.
- Constructed the frontend using ReactJS and Ant Design, providing users with the ability to seamlessly add items to their shopping cart and place orders.
- Containerized the build and successfully deployed it to AWS App Runner for streamlined scalability and accessibility.

Around: A Cloud and React based Social Network
(Extracurricular project, September, 2023 – November, 2023)
- Designed and implemented a social network web application with React JS.
- Implemented features for users to create and browse posts.
- Used ElasticSearch (deployed to GCE) to provide search functions such that users can search recent posts and list personal posts.
- Improved the authentication using token-based registration/login/logout flow with React Router v4 and server-side user authentication with JWT.
- Launched a scalable web service in Go to handle posts and deployed to Google Cloud (Google App Engine)

Next AI: Full-Stack Web-Based Q&A AI Agent for PDF Document Queries
(Extracurricular project, December, 2023 – February, 2024)
- Engineered an interactive conversational UI leveraging React and Ant Design, enabling users to effortlessly upload and interact with PDF documents in real-time
- Architected and implemented RESTful APIs via Express and Node.js, optimized for high-performance request handling
- Utilized a memory vector store to cache generated embeddings for efficient retrieval
- Integrated OpenAI's GPT-3.5 Turbo API and Langchain technologies, resulting in a sophisticated AI Agent capable of document loading, splitting, storage, retrieval, and output functionalities