

Yuxuan Qin

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EDUCATION

Northeastern University, Boston, United States, **GPA: 3.92/4.00**

Sep. 2023-Jun. 2025

- *Master of Science* in Computer Software Engineering
- Core Curriculum: OOD, Data Structure & Algorithm, Linux, Operating Systems, Distributed Systems, Cloud Computing

University College London, London, United Kingdom, **GPA: 3.70/4.00**

Sep. 2022-Aug. 2023

- *Master of Science* in Digital Information Study
- Core Curriculum: Database Theory and Practice, JavaScript Programming, Natural Language Processing, Data Visualisation & GIS

Central China Normal University, Hubei, China, **GPA: 3.77/4.00**

Sep. 2018-Jul. 2022

- *Bachelor* in Network and New Media

TECHNICAL SKILL

- **Languages:** Java(advanced), Python(good), JavaScript(moderate), Golang(moderate), TypeScript, Scala, SQL, R
- **Frameworks & Platforms:** Express.js, Postman, React.js, Node.js, AngularJS, Ant Design, Spring Boot, Flask, Django, Linux, Android, Android Jetpack, Kotlin, iOS, AWS, Google Cloud Platform, Google App Engine, Docker, Git
- **Database & Tools:** NoSQL, MySQL, PostgreSQL, AWS RDS, GCS, MongoDB, Redis, Room, Axios, Elasticsearch

PROFESSIONAL EXPERIENCE

Lerno AI

London, United Kingdom

Full Stack Software Engineer

Sep. 2024-Nov. 2024

- Engaged in the development of Lerno AI's audience intelligence platform, specifically designed for B2B revenue operations teams
- Utilized **TypeScript**, **Next.js** for front-end development and **Nest.js** for backend integration to support the implementation of NLP algorithms and AI models that analyze unstructured customer data, to deliver precise market insights and customer needs understanding
- Developed an AI-integrated QA system that not only facilitates web navigation but also assists users in extracting key points from reports and meetings, leveraging development tools and platforms such as **Docker**, **PostgreSQL**, **Git**, **Swagger**, and **AWS**

Swapt

Boston, United States

Full Stack Software Engineer

Jun. 2024-Sep. 2024

- Engineered a comprehensive QR code generator within the Swapt platform, enabling users to create highly customizable QR codes with diverse styles. Integrated features such as OAuth, products menu, phone verification, POS payment, Shopify discount integration, etc.
- Developed and deployed scalable serverless functions with **Python** under an **AWS** environment, using **Lambda**, **AWS Gateway** and many other tools, ensuring efficient and reliable cloud-based operations and data processing
- Utilized **JavaScript**, **Node.js** and **React.js** to design and implement a feature-rich platform interface, encompassing sample display, QR code generation, campaign creation, and user data analysis, significantly boosting operational efficiency and user interaction
- Leveraged cloud platforms including **GitHub**, **AWS**, and **Google Workspace** for robust version control and **CI/CD**

Lloyd's Register Foundation, Heritage & Education Center

London, United Kingdom

Digital Information Advisor

Apr. 2023-Jun. 2023

- Engineered a SQL database of historical data for vessels by to catalog details such as names, maintenance, and decommissioning years

PROJECT EXPERIENCE

Next AI

- Built an AI-Driven Document Management Platform capable of rapidly extracting content from PDF files and providing answers to user queries, greatly aiding in the reading of academic papers and scholarly journals
- Developed an interactive UI with **React** and **Ant Design** for a conversational agent, enabling real-time PDF document manipulation
- Engineered **RESTful APIs** with **Express.js** and **Node.js** for efficient network communication and conversation-like request processing
- Implemented an in-memory vector store for caching embeddings, optimizing the system for quick data retrieval
- Incorporated **OpenAI API**, **GPT-3.5 Turbo Model** and **Langchain** technologies to build a sophisticated AI agent that manages document operations including loading, splitting, storage, retrieval, and various output capabilities

Online Order: Secure & Scalable Online Food Ordering Solution

- Constructed an online food ordering solution that enables users to easily search for restaurants, browse menus, and place orders online
- Developed **CRUD RESTful API** using **Spring Controllers**, enabling functionalities such as registration, ordering and checkout
- Leveraged **Spring Data JDB**C and repositories to interface with a **PostgreSQL** hosted on **AWS RDS**
- Fortified the application with **Spring Security**, implementing session-based authentication mechanisms
- Architected the project with a clear separation of controller, service and repository layers, utilizing dependency injection
- Constructed the frontend with **Node.js**, **React.js** and **Ant Design**, creating an intuitive user interface for cart and order management
- Containerized the application using **Docker**, and pushed it to **AWS ECR**, successfully deployed the application on **AWS AppRunner**

Echosphere: A Next-Gen Cloud-Powered Social Platform

- Engineered a social networking platform utilizing **Golang & React**, allowing users to upload images and text, search content based on keywords, providing a means to document life experiences
- Enhanced authentication processes through token-based mechanisms, integrating **React Router v4** and **JWT**
- Deployed a robust web service successfully on **GAE(backend)** and **AWS(frontend)** capable in **Go** to handle voluminous posts
- Implemented **Elasticsearch** within **Google Cloud Environment (GCE)** to offer advanced post search capabilities, including querying recent activities and personal content listings, as well as using **Google Cloud Storage (GCS)** as a **NoSQL** storage for images and videos