Yanying Xiang

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EDUCATION

Northeastern University – Boston Campus, Boston, MA   Jan 2023 – Sep 2025
MS in Computer Science Candidate, GPA: 4.0/4.0
Relevant Coursework: Algorithms, Database Management System, Web Development, Data Structures, OOD

Imperial College London, London, UK   Sep 2019 - Sep 2020
MSc in Environmental Engineering, GPA: 3.76 / 4.0

Lanzhou University, Lanzhou, CN   Sep 2015 - Jun 2019
BS in Environmental Engineering, GPA: 3.74/4.0

TECHNICAL KNOWLEDGE

- **Languages:**   Java, Python, JavaScript, TypeScript, C
- **Web Development:** Spring boot, React, Flask, MERN, Next.js
- **Cloud and DevOps:** Alibaba Cloud, AWS, Google Cloud Platform (GCP), Git, Docker, CI/CD
- **Databases:**   MySQL, MongoDB, Redis, PostgreSQL

WORK EXPERIENCE

Software Development Intern (Spring Boot & React & Flask)   *Jan 2024 - Apr 2022*
Shanghai Nine Dimensions Industry Chain Intelligent Technology Co,. Ltd. (NDICSH), Shanghai, CN
- Maintain a database of 60 tables, handling nearly one billion records. Design and optimize the database according to third normal form and business requirements, boosting SQL query efficiency by **150%** and cutting memory usage **by 50%.**
- Maintaining Alibaba **ECS** servers (**Linux)**, overseeing the operational status of services. Removing unnecessary components from servers, expanding cloud disks to meet the operational requirements of new projects.

    Report Search Program
- Fully involved from project initiation and product planning to project full-stack development and launch, with the entire development process spanning approximately one month.
- Utilize the **React + Taro + TypeScript + Webpack5** framework for the cross-platform and cross-framework frontend solution, reducing future maintenance costs for cross-platform development.
- Implemented **Elasticsearch (ES)** and **Redis** caching to achieve high concurrency for thousands of people.
- Developed an automated web scraping system using **Python Flask**, with cloud-based storage for report files and automated data processing and analysis services, reducing manual effort required.

Environmental Engineer   *Sep 2020 - Mar 2022*
Zhejiang Zhonglan Environmental Technology Co., Wenzhou, CN
- Lead a small team, overseeing 2-3 projects simultaneously to ensure timely completion with high quality.
- Communicated with dozens of clients, satisfying their requirements.

PROJECTS

European Homestay Exchange Program (React & TypeScript)   Apr 2024 - Present
EuroStay
- **Lead** the code reconstruction and project migration work of the five-person development team, and migrate the WeChat native architecture development to **React** Taro cross-end development

Clinic Management System (React & Flask & MySQL)   Nov 2023- Dec 2023
- Developed a responsive front-end interface with **React**, tailored to provide customized operational functionality based on user roles (patient, nurse, doctor, administrator).
- Designed the database schema and implemented functions, stored procedures, and triggers to achieve automate tasks and prevent SQL injection.

Online Marketplace Development (MERN Stack)   Jul 2023-Aug 2023
- Integrated **GCP** for streamlined multimedia capabilities, facilitating image submission and cloud storage.
- Implemented **Redux** to achieve user status management.
- Implemented **real-time communication** functionality between buyers and sellers, enabling instant messaging and interaction.

HONORS AND AWARDS

National Scholarship (Top 1%), Outstanding undergraduate graduates, outstanding undergraduate thesis