Yaohong Xiang

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Education

Northeastern University | GPA 3.9 — **Boston, MA**
Master of Science in Information Systems — *Expected May 2024*

Fudan University | GPA 3.4 — **Shanghai, China**
Bachelor of Business in Information Systems and Information Management — *Sep. 2017 – June 2022*

Technical Skills

Languages: Java, Python, JavaScript, SQL, C/C++, HTML 5, CSS 3
Tech Stacks: MySQL, MongoDB, PostgreSQL, Redis, Spring, Django, Node.js, React.js, Vue.js, FastAPI, jQuery
Dev Tools: AWS EC2, Git, Linux(Ubuntu), Apache Tomcat, NGINX, VS Code, IntelliJ, PyCharm, Jupyter Lab

Experience

Yidu Cloud — **Mar. 2022 - Jul. 2022**
Digital Innovation Center Intern — *Shanghai, China*

- Contributed to China's top lung cancer screening system by building 30% of responsive and adaptive **frontend pages** for both desktop and mobile devices and optimizing loading speed through browser caching
- Cooperated with the business team on a daily basis to gather and analyze requirements to enhance the data preprocessing workflow using **Python**, resulting in a reduction in decision-making time from one week to two days
- Took ownership of cleaning and mining research data of the entire department to support medical data models by standardizing data formats and handing outliers using **Pandas** library

Shanghai Lanju — **Dec. 2020 - Mar. 2021**
Data Mining & Software Development Intern — *Shanghai, China*

- Design and implemented a **Python-based** automated data collection and pre-processing system to streamline the data crawling and cleaning process, reducing the work time from 30 hours to 5 hours each week
- Utilized dynamic IP rotation using **Redis** for web crawling to enhance system's resilience against website access restrictions by reducing IP blocking frequency from every 10 minutes to less than 1 per hour
- Established a data crawling pipeline for over 100 websites to gather and extract over 5 million records of data

Projects

LLM-based Life Simulation System | *Django, React.js, MongoDB, PostgreSQL* — **Sep. 2023 – Present**

- Developed an AI-driven interactive-story system using **Django** server to support **RESTful API** and persist data with **MongoDB** and **PostgreSQL**
- Led the tech team with remote teammates via **Slack** and **Teams** on a weekly basis to design system architecture, optimize technologies, and achieve a reduction in project implementation time from 5 weeks to 3 weeks
- Implemented lazy loading and pre-generating features for images of **React.js** pages to improve the site's Google PageSpeed score from 61 to 94

Subway Ad Management System | *Java, JavaScript, SpringBoot, REST API, MySQL* — **Apr. 2023 - Aug. 2023**

- Spearheaded development of a subway advertising management system using **Java**, featured in an integrated data dashboard for 5 distinct ad types with unique data structures using **SpringBoot**, **RESTful APIs**, and **MySQL**
- Achieved over 10K+ visits by selling the system to Jinhua Rail Transit Group and maintained **AWS EC2** server with regular updates, **MySQL** backups, and managed disk space by cleaning images and logging data on a monthly basis
- Built a data visualization feature using the **Chart.js** library to create an intuitive dashboard, resulting in a 92% satisfaction rate based on feedback from 100+ users

Real-time Chat Application with AI | *JavaScript, Node.js, React.js, MongoDB, Socket.IO* — **Jan. 2023 - Apr. 2023**

- Spearheaded cross-functional teamwork using **Git**, **Jira** and **Slack** to ensure a streamlined 3-week delivery
- Incorporated **Socket.io** for instant messaging and integrated OpenAI API with **Node.js** backend server to enhance user experience with a context-aware AI-robot chat feature
- Developed interactive web pages using **React.js** with features including toast notifications implemented using **react-toastify** and enhanced user interfaces with **Material-UI**