

Michael (Xiu) Yang

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OBJECTIVE

Looking for Full-Time Full-Stack Software Engineer position.

Master's candidate with extensive full-stack projects and internships in UX/UI design in JavaScript with React and backend development in C++, Python, and Java with Spring Boot.

Exceptional skills in Python, JavaScript, Java, C, C++, Kotlin, React, SQL, AWS, Git, and Spring Boot.

EDUCATION

Cornell University

Ithaca, NY

Master of Engineering in Operation Research (Data Analytic Concentration)

Aug 2024 - Present

Relevant Courses: Deep Learning, Build Applications of LLMs (RAG), Big Data Management and Analysis

University of Waterloo

Waterloo, Canada

Bachelors of Computer Science, GPA: 89.25/100

Sep 2019 - Jun 2023

Relevant Courses: Intro to AI and ML, Algorithm design and Data abstraction, Object-oriented Software Development (Kotlin), Data Structures and management, Numerical Computation, Database Management

TECHNICAL SKILLS

Programing Languages: Python, Java, JavaScript, C, C++, Kotlin, R

Databases & Frameworks: Spring Boot, Spring Cloud, Spring Security, Hibernate, MySQL, PostgreSQL, No-SQL MongoDB, Redis, Elasticsearch, Hadoop, Vue, React, AWS, JMeter, Kafka, REST

Libraries: Pytorch, Git, Tensorflow, Scikit-learn, LangChain, Tableau, Docker, Numpy, Pandas, Maven

WORK EXPERIENCE

Gen Digital

Mountain View, CA

Software Engineering Intern

May 2025 - Present

- Developed and maintained scalable backend microservices for the eStore platform using Java and Spring Boot on the ILEAP team
- Designed and implemented RESTful APIs to enhance user engagement, contributing to a 10% increase in site traffic
- Created comprehensive unit and integration tests with JUnit and Mockito to ensure code quality and system reliability

Peking University

Beijing, China

Research Assistant (Advised by Prof. Dongyan Zhao)

Jun 2023 - Jan 2024

- Carried out a literature review on the topics of theoretical optimization for natural language processing methods, especially the area of Verbal Intelligence
- Performed topic study on Large Language Model (LLM) and In-Context Learning, and practiced running demos with LLM models to achieve Q&A tasks

Beijing Hirain Company

Beijing, China

API Development Intern

Jan 2022 - Apr 2022

- Developed and tested electronic control unit APIs in C++ for the car's embedded system
- Implemented a distributed client server system in C++ to handle and process real time requests
- Built an end to end machine learning model to monitor human motion in real time and send alerts

PROJECT EXPERIENCE

Mini Coursera: A Full-Stack Online Learning Platform (Java, JavaScript, React) June 2024 - July 2024

- Implemented RESTful APIs via Java Spring Boot and Spring Cloud, and separated each functional module using microservice architecture
- Built the course searching function by Elasticsearch and saved the high concurrency visited in cache by Redis and static HTML that improved the transaction per second by 30% tested by Jmeter and Postman
- Saved the upload course videos by the distributed file system and improved the video upload efficiency by enabling transmission resuming at break-points
- Implemented the gateway to achieve filter and forward the request, load balancing, and user authentication via Spring Security, and containerized the project using Docker

PUBLICATION

Yang, X. (2023, Oct 18). Adversarial Attacks Against Multi-armed Bandit Algorithms: Attack, Defense, and Application [Accepted]. International Conference on Machine Learning and Automation (CONF-MLA 2023), Oxford, UK.