

Miaoyu Wang

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EDUCATION

The University of Akron <i>M.S. in Computer Science</i>	Akron, OH Aug. 2020 – Dec. 2022
Qingdao University of Science and Technology <i>Bachelor's in Polymer Materials and Engineering (Talents Program, Top 5%)</i>	Qingdao, China Sep. 2014 – July 2018

PROFESSIONAL EXPERIENCE

Senior Technologist(Software Engineer) @Digital Clarity <i>Leveraged Springboot and Microservices to construct the backend of the Smart traffic system</i>	April 2022 – Present
- Designed and implemented RESTful APIs and Microservices of Data pipeline System to monitor and process data using Java, Spring boot, and Spring Cloud - Design, build and manage the ELK (Elasticsearch, Logstash, and Kibana) cluster for search functionalities for the smart traffic system - Employed Spring Data Redis as a cache to improve the performance of data retrieval, reducing 0.5s latency on average - Configured Spring Cloud Eureka Server Cluster for registration and discovery of designated Microservices to achieve high availability	
Technologist Intern(Software Engineer) @Digital Clarity <i>Leveraged CV, NLP, and Azure to detect altercation, theft, and potential customers</i>	Jan. 2022 – April 2022
- Fully responsible for detecting altercation, theft, and potential customers development - Manipulated CSS, HTML, React, and JavaScript for presenting an appealing GUI - Leveraged CV and NLP to detect altercation and increased their accuracy to 98%	

RESEARCH EXPERIENCE

Parallel coordinate on a spiral surface <i>Three.js, JavaScript, Docker, AWS, Linux</i>	June 2021 – Present
- Designed a 3D spiral architecture by Three.js and WebGL to display high dimension data with less cluttering - Leveraged Docker/EC2 and deployed services into AWS	

SELECTED PROJECTS

Personal Blog <i>Springboot, Semantic UI, MySQL, Redis, Docker, Oracle Cloud</i>	April 2021 – June 2021
Amazon Clone <i>React, Express, MongoDB, Node.js</i>	Mar. 2021 – Aug. 2021
Facebook Clone <i>Tailwind CSS, Firebase, Next.js</i>	Mar. 2020 – Aug. 2020

TECHNICAL SKILLS

Languages: Java, JavaScript, HTML/CSS, Python, SQL
Frameworks: Springboot, Spring MVC, Spring Cloud, Spring Data, React, Three.js
Database: MongoDB, MySQL, Redis, PostgreSQL
Other: RESTful, Maven, JPA, RabbitMQ, Kafka, Eureka, Docker, Microservices, OOP, Postman, Jira, Azure

SELECTED AWARDS

[2015]: 1st Prize, Mathematical modeling in Gaoxin Cup (Rank No.1)
[2015]: The First-Class Scholarship of Yokohama (1%)
[2015]: 1st Prize of Shandong Province, Contemporary Undergraduate Mathematical Contest in Modeling(CUMCM)
[2016]: Honorable Mention, The International Mathematical Contest in Modeling(MCM)
[2016]: The First-Class Scholarship of Meichen (1%)
[2018]: Outstanding Graduate and Outstanding Graduation Thesis (2%)