Zejun Zhou

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Education

Brown University Sep 2024 – May 2026
Master of Science in Computer Science *Providence, RI*
University of Wisconsin-Madison Aug 2020 – May 2024
Bachelor of Science in Computer Science and Data Science *Madison, WI*

- Cumulative GPA: 3.687, Dean's List
- Relevant Coursework: Big Data System, Operating System, Software Engineering, Data Structure and Algorithm
- Clubs: Data Science for Sustainable Development (DSSD), Google Developer Student Club (GDSC)
- Extracurricular Activities: Peer Mentor in Computer Science Learning Center of UW-Madison

Internship Experience

Biren Technology *Shanghai, China*
DevOps Engineer Intern June 2024 – Aug 2024

- Contributed to open-source project k8s-device-plugin by implementing a GPU health check logics in **Golang**, preventing the allocation of unhealthy GPUs.
- Developed and integrated heartbeat checks to enable pulsed device information reporting in k8s-device-plugin, improving resource management reliability.
- Created a custom Kubectl plugin to improve the operations team's ability to inspect **Kubernetes** CRD information, increasing operational efficiency.
- Optimized the cloud platform's API using **gRPC**, and used **gRPC** gateway to provide HTTP API for frontend access

AsiaInfo *Hang Zhou, China*
DevOps Engineer Intern June 2023 – Aug 2023

- Engaged in the operational team to maintain and iterate the Resource Monitoring Platform using **Docker** and **Kubernetes**, automating the deployment and scaling of services.
- Utilized **Jenkins** to deploy code from company's Git repository to the testing environment, facilitating continuous integration and automated testing processes.

Research Experience

Undergraduate Research Assistant *Madison, WI*
The People and Robots Laboratory September 2023 – May 2024

- Collaborated with Dr. Bilge Mutlu's group to simulate Petri-net model in robotic systems, contributed to application architecture design and state management control.
- Initiated the adoption of **Cassandra** for efficient data writing and secure storage, executing schema designs to support the simulation logic.
- Developed a responsive front-end application with **React,** utilizing the **Reactflow** library for interactive manipulation of nodes, arcs, and tokens, and integrated a **Flask** backend for processing simulation logic.
- Enabled full-stack containerization with **Docker** and implemented **Ngrok** services for live demonstrations, improving real-world applicability and collaboration with peers.

Project

Esker, Inc – Company Capstone Project Sep 2023 – Dec 2023
Esker, Inc *Madison, WI*

- Developed key frontend features including file upload, validation, and logging using **React.js**, improving the user experience
- Implemented essential backend features in **Flask** to meet the client requirements and support frontend file operations.
- Served as Scrum Master, facilitating sprint planning and standups, while leading the integration of **Docker**.

HealthHive – **Personal Project** June 2023 – Sep 2023
A web application that's currently live, empowering individuals with personalized health insights and wellness forecasts.

- Engineered a dynamic and interactive frontend using **React.js** and orchestrated a robust **Flask** backend.
- Designed the **Cassandra** database schema for optimal data storage and high-speed retrieval, enhancing the efficiency and reliability of the application.
- Deployed the application using **Google Cloud Platform** (GCP) and Docker.

Skill

Programming Language: Golang, Python, JavaScript
Framework: React.js, Flask, Node.js, Kratos
Database: Cassandra, MySQL, MongoDB
Developer Tools: Git, Jira, Notion, Confluence
Operation Skill: Docker, Kubernetes, Contained, Linux