

# Zejun Zhou

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## Education

### Brown University

Sep 2024 – May 2026

*Master of Science in Computer Science*

*Providence, RI*

- Relevant Coursework: Cloud and Datacenter Operating Systems, Computer System

### 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, Software Engineering, Operating System, Data Structure and Algorithm
- Clubs: Data Science for Sustainable Development (DSSD), Google Developer Student Club (GDSC)

## Experience

### Biren Technology

*Shanghai, China*

*DevOps Engineer Intern*

June 2024 – Aug 2024

- Developed GPU health check logic in **Golang** for k8s-device-plugin to prevent unhealthy GPU allocation.
- Built and integrated heartbeat checks to k8s-device-plugin for reliable device reporting.
- Created a custom Kubectl plugin to simplify Kubernetes resource management, boosting operational efficiency.
- Optimized the cloud platform's API using **gRPC** and used **gRPC** gateway to provide HTTP API for frontend access.

### The People and Robots Laboratory

*Madison, WI*

*Undergraduate Research Assistant*

September 2023 – May 2024

- Collaborated with Dr. Bilge Mutlu's group on simulating Petri-net models in robotics, contributing to architecture design.
- Adopted **Cassandra** for efficient data storage and schema design to support simulation logic.
- Built a responsive front-end with **React** and **Reactflow** for interactive simulation, integrated with a **Python Flask** backend.
- Containerized full stack with **Docker** and used **Ngrok** for live demos.

### AsiaInfo

*Hang Zhou, China*

*DevOps Engineer Intern*

June 2023 – Aug 2023

- Maintain the Resource Monitoring Platform using **Docker** and **Kubernetes**, automating service deployment and scaling.
- Used **Jenkins** to deploy code from Git to the test environment, enabling continuous integration and automated testing.

### Computer Science Learning Center of UW-Madison

*Madison, WI*

*Computer Science Tutor*

September 2022 – May 2023

- Tutored 30+ students on Computer Science fundamentals in weekly sessions.
- Guided students in debugging using print statements and **GDB** for efficient problem-solving.
- Reinforced CS concepts by asking questions during tutoring and creating video tutorials on YouTube for student access.

## 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 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.

## Publication

- Zhou, Z., Jin, Y., & Praveena, P. (2024). *Statewise: A Petri Net-Based Visual Editor for Specifying Robotic Systems*. Accepted for presentation at UR-RAD Symposium, 2024. Optional publication in AAAI Proceedings.

## Skill

**Programming Language:** Golang, Python, JavaScript, C

**Framework:** React.js, Flask, Node.js, Kratos

**Database:** Cassandra, MySQL, MongoDB

**Developer Tools:** Git, Jira, Notion, Confluence

**Operation Skill:** Docker, Kubernetes, Contained, Linux