

Zejun Zhou

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EDUCATION

University of Wisconsin-Madison

August 2020 – May 2024

Bachelor of Science in Computer Science and Data Science

Madison, WI

- Cumulative GPA: 3.7, Dean's List
- Clubs: Data Science for Sustainable Development (DSSD), Google Developer Student Club (GDSC)
- Relevant Coursework: Big Data System, Machine Organization, Software Engineering, Data Structure and Algorithm

EXPERIENCE

DevOps Engineer Intern

Hang Zhou, China

AsiaInfo Technologies Ltd

June 2023 – Current

- Employed **Docker** and **Kubernetes** to implement and maintain a **service mesh** architecture, utilizing **sidecar patterns** for seamless integration and communication between services.
- Utilized **Kubectrl** to orchestrate pod deployments, actively monitored their health and performance, and executed seamless rolling updates, ensuring continuous availability of containerized applications.
- Deployed **Kafka** cluster to facilitate an **event mesh** architecture, enabling cross-domain communication while ensuring a reliable and scalable messaging infrastructure.
- Engaged in daily stand-up meetings, actively collaborating with cross-functional teams to ensure effective communication, alignment, and progress tracking throughout project development

Computer Science Learning Center Peer Mentor

Madison, WI

Computer Science Learning Center of UW-Madison

September 2022 - Current

- Facilitated weekly tutoring sessions at the Computer Science Learning Center, assisting over 50 students in understanding fundamental topics of Computer Science
- Provided guidance and support to students in **Python** and **Java** programming for their course projects, helping them navigate challenges and improve their understanding of the subject matter.

Research Assistant

Madison, WI

Informatics Skunkworks

January 2022 – August 2022

- Collaborated with Dr. Benjamin Afflerbach to develop regression models using the **Python** module **Scikit-learn** and **MAST-ML**, accurately predicting band-gap values by leveraging various chemical features.
- Evaluated the performance of the regression model by generating a Parity Plot and assessed its effectiveness using statistical metrics including R Square, MAE, and RMSE.

PROJECT

HealthHive ([GitHub](#))

June 2023 – Current

A web application empowered individuals with personalized health insights and wellness forecasts.

- Designed and executed the scalable application structure, maintained detailed project logs, and utilized **Docker** for streamlined project deployment.
- Engineered a dynamic and interactive frontend using **React.js** and orchestrated a robust **Flask** backend to serve the application's core functionalities.
- Devised the **Cassandra** database schema for optimal data storage and high-speed retrieval, deployed the cluster to achieve ACID properties, enhancing the efficiency and reliability of the application.
- Leveraged **Spark** to extract and transform data from OLTP to OLAP, storing transformed data in **HDFS** to create a scalable and reliable data warehouse.

Sprints ([GitHub](#))

February 2023 – May 2023

A DevOps platform designed to aid students in implementing agile methodologies.

- Served as **Scrum Master**, leading a team of 6 in Agile development, incorporating continuous integration and continuous delivery (CI/CD).
- Engaged in UI/UX design and built interactive frontend features using **React.js**, paralleled by the integration of **Google Authentication** to enhance user experience through aesthetic design and simplified authentication.
- Implemented **caching** and **local Storage** strategies, substantially boosting application performance, improving load times, and delivering a smoother user experience.
- Deployed **Docker** containers, integrating a diverse tech stack of **React.js** for frontend, **Flask** and **Express** for backend, and **MySQL** for database, boosting development efficiency and application stability.

SKILL

Programming Language: Python, Java, HTML/CSS, JavaScript, SQL, R

Framework: React.js, Flask, Node.js, Express.js, Bootstrap, Spark

Database: Cassandra, MongoDB, MySQL

Developer Tools: Git, Docker, Kubernetes, Hadoop, Kafka, Big Query

CERTIFICATION

Google Data Analytics Certification – Coursera

The Complete 2023 Web Development Bootcamp – Udemy