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 – August 2023
- Engaged in the operations 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.
- Collaborated with the development team to implement a resource alerting feature using subscription messaging, powered by a **Kafka** cluster.

Computer Science Learning Center Peer Mentor   *Madison, WI*
Computer Science Learning Center of UW-Madison   September 2022 – May 2023
- 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 (*Website*) (*GitHub*)   June 2023 – Current
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 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.
- Deployed the application using **Google Cloud Platform** (GCP) and Docker, and configured **Nginx** as a reverse proxy to safeguard the application's APIs
- Designed and executed the scalable application structure, maintained detailed project document.

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 (Proficient), Java, HTML/CSS, JavaScript, SQL, R
Framework: React.js (Proficient), Flask (Proficient), Node.js, Express.js, Bootstrap, Spark
Database: Cassandra (Proficient), MongoDB, MySQL
Developer Tools: Git, Docker, Kubernetes, Hadoop, Kafka, Big Query

CERTIFICATION

Google Data Analytics Certification – Coursera
The Complete 2023 Web Development Bootcamp – Udemy