Jinah Yoo

Software Engineer

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SKILLS

Programming Languages
Java, C#, C, Python, JavaScript, HTML, CSS, MATLAB, Bash

Fraemworks
Django, ASP.NET, React

Infrastructure-Cloud & DevOps
Docker, Kubernetes, AWS(EC2), GitHub Actions, Terraform, Prometheus, Grafana, ArgoCD

Technology/Tools
Git, MSSQL, REST API, LaTex

EDUCATION

Bachelor of Science in Computer Science and Mathematics (Double) Expected 2025/5 | Superior, United States
University of Wisconsin-Superior
Cumulative GPA : 3.93/4.00

EXPERIENCE

DevOps Engineering & Research Intern 2024/05 – 2024/12 | Duluth, Minnesota
Allete, Inc

- **Developed secure, reusable CI pipelines** using GitHub Actions, integrating IaC security tools like **KICS** and **Trivy**.
- Led a project to **transform raw VMware metrics from virtual servers into an interactive, user-friendly dashboard** using **Grafana** and **Prometheus**. Enhanced system observability by enabling real-time monitoring of virtual machine performance.
- **Documentation and Onboarding:** Co-authored an onboarding guide covering tools such as Docker, Kubernetes, and GitHub Actions, specifically tailored to the corporate environment to facilitate the adoption of new technologies.

PROJECTS

Spartan Manufacturing Resource Management System (SMRFS) 2024/09 – 2024/12
An ERP web application developed with **C# ASP.NET Core** to streamline workflow management for Spartan Manufacturing (wood and metal manufacturing) at Superior High School.

- Designed and developed core features to **automate the manufacturing process**, from order intake to real-time process tracking.
- **Integrated Google Forms API** to automate client order collection and save form responses directly into the system database.
- **Implemented user authentication and authorization** with granular role-based and policy-based permissions.

Self-driving Robot with Sensor Accuracy Evaluation 2024/05 – 2024/08

- **Conducted comparative analysis** of **ultrasonic** and **Time-of-Flight (ToF) infrared sensors** to assess distance measurement accuracy for autonomous navigation.
- **Developed microcontroller firmware** in **C** to integrate selected sensors into a self-driving miniature car for obstacle avoidance.
- **Created a web application** utilizing the **Web Bluetooth API** for real-time sensor data monitoring and remote robot control.
- **Delivered a comprehensive report** detailing sensor performance and a functional autonomous vehicle prototype.

Work Order Automation System 2024/12 – 2025/02

- **Developed a web application** using **C# ASP.NET Core** to automate and streamline the maintenance work order submission process.
- **Implemented automated workflows** to replace manual data entry, enabling efficient logging, management, and generation of work orders for maintenance staff.
- **Enhanced operational efficiency** by centralizing work order submissions, improving data accuracy, and significantly reducing processing time.

CERTIFICATES

Certified Kubernetes Application Developer
The Linux Foundation
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