Noah Burnette

I make software for the manufacturing industry

Contact

- Asheville, North Carolina
- nburnet1022@duck.com
- (828)551-0543
- burnette.tech
- nburnet1
- Noah Burnette

Languages

Go Python SQL TypeScript Java JavaScript Shell HTML/CSS

Frameworks/Libraries

Gin Flask Gorm Next.js React Node.js Redux Express

Data/Tools

Git Firebase Jira Kubernetes Docker PostgreSQL MSSQL Azure DevOps

Summary

I am a software engineer that digitally transforms manufacturing across the world.

Experience

12/2023 - Present

MES Software Engineer

Intellic Integration

- Developed versioned test-driven MES applications using Ignition.
- Created a Unified Development Environment using containerization, improving developer experience.
- Gained experience in various fields, including food and beverage and battery manufacturing.
- Assisted in the development of a native test engine for Ignition, streamlining testing processes.

04/2023 - 11/2023

Software Developer Intern

Sierra Nevada Brewing Co.

- Developed modular Ignition SCADA applications.
- Employed T-SQL to design stored procedures and views for streamlined database operations.
- Implemented back-end functionality using Python, enhancing the performance of server-side calls.
- Led the adoption of Agile practices using Azure DevOps.

12/2021 - 04/2023

Network Technician

Microtech Knives

- Managed and installed Linux infrastructure.
- Created Docker images to facilitate seamless deployment of workspaces.
- Conducted network analysis, uncovering potential security threats.
- Installed and configured Meraki hardware, enhancing network robustness.

Projects

GoMES · https://github.com/nburnet1/gomes *05/2024 - Present*

Implementation of MES within a ISA95 context. Designed to be reusable and configurable.

- Developed a modular event driven manufacturing execution system using Go
- Automated DAO and model creation using Gorm, decoupling the database from the application.
- Used Docker to containerize the application, streamlining deployment and scaling.
- Created documented RESTful API using Gin and Swag, simplifying integration with other systems.
- Implemented Edge capabilties using MQTT and OPC-UA, enabling near real-time data collection and analysis.

Pyile · https://github.com/nburnet1/pyile-protocol *06/2022 - 11/2023*

Modular Python application enabling secure and private messaging via P2P.

- Created Pyile protocol supporting authentication and messaging, ensuring data privacy.
- Implemented robust security measures to protect user communications and integrity.

Education

University of North Carolina Asheville *05/2020 - 12/2023*

Bachelor of Science Computer Science

CodePath *02/2022 - 05/2022*

Cybersecurity