

Tyler Shoemake

Software Engineer II

 tylershoemake

 tyshoe

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Results-driven software engineer with a passion for developing innovative solutions. Leveraging 4 years of experience in full-stack development to deliver high-quality software products. Seeking to contribute expertise to drive impactful projects while furthering my knowledge of technology.

Work Experience

Software Engineer

Idaho Forest Group | Apr 2022 - Present

- Developed human-machine interfaces (HMIs) to monitor and control production, logistics, and quality control systems across the organization, providing real-time operational insights
- Designed and implemented automated solutions to streamline operational workflows and enhance efficiency across various processes which contributed to increased production by 150%
- Created and maintained database structures to support efficient data tracking for inventory management and operational reporting
- Collaborated on creating industry standards for HMIs to ensure consistency, usability, and scalability across monitoring and control systems
- Identified and resolved system bugs in an automated inventory system, increasing system reliability and reducing downtime
- Developed optimized scheduling systems to improve asset management and placement of lumber across warehouses

Quality Assurance Technician

Georgia Pacific LLC | Dec 2019 - June 2022

- Collected, managed, and analyzed data on raw materials and finished products to ensure adherence to quality standards and enhance production consistency
- Validated and processed defective raw materials, identifying workmanship issues and presenting evidence to suppliers to drive quality improvements
- Collaborated with Quality, Operations, and Safety teams to implement initiatives aligned with MBM® guiding principles, fostering a culture of continuous improvement
- Delivered clear and actionable insights to Quality and Operations teams, as well as to external suppliers, to support quality and process optimization
- Recommended cost-saving strategies that reduced waste and optimized resources, resulting in approximately \$1,200,000 in annual savings by addressing issues with defective materials

Customer Service Associate

Lowe's Companies, Inc. | Nov 2018 - Jan 2020

- Provided tailored technical assistance and product guidance in a high-volume retail setting, building strong customer-facing communication and problem-solving skills

Education

Bachelor of Science in Computer Science

The University of Southern Mississippi | Dec 2022

Associate of Arts in General Studies

Jones College | May 2020

Soft Skills

UI/UX Design

HMI Design

Database Management

Communication

Adaptability

Attention to detail

Organization

Technical Skills

Python

C#

Java

JavaScript

Dart

Flutter

SQL

Ignition

PLC

SCADA

Automation

Data Analysis

Github

Projects

- ReadStats** — Flutter mobile app on the iOS App Store (Android in progress) for logging books and tracking reading stats
- Ignition Exchange** — Published Vision components: Active Alarm Icon (250+ downloads) and Auto Logout (100+)
- Terraflap** — C# Windows Forms game (senior capstone) built with fully custom assets

Certifications

- PLC Fundamentals** - Hydraulic Training Associates
- Inductive University** - Inductive Automation
- Part 107 Remote Pilot Certificate (sUAS)**