

Jay Mason

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EDUCATION

Arizona State University	2025
<i>Bachelor of Science in Engineering Management</i>	
Oakland Community College	2019
<i>Associate in software engineering & Web development certificate</i>	

SKILLS

Programming Languages & Frameworks C#, .NET, Java, Kotlin, C++, Lua
Web & Front-End Development HTML/CSS, TypeScript, React, Angular, PHP, Bootstrap
Database & Tools MySQL, MSSQL, Git, Azure, Entity Framework

VOLUNTEER PROJECTS

Oakland HOPE – Nonprofit Portal	2019 - Current
Designed and developed two comprehensive web applications to enhance organizational efficiency:	
<ul style="list-style-type: none">Volunteer Portal: Created a customized system for managing volunteer contact information and tracking volunteer hours. This centralized hub streamlined volunteer management processes.Food Pantry Portal: Developed a dynamic application to optimize food pantry operations, including client information collection, visit record creation, and food distribution tracking.	
Tech Stack: PHP, C#, HTML5/CSS3, Bootstrap, jQuery, TypeScript, React	

PROFESSIONAL EXPERIENCE

Willis Towers Watson (WTW), Remote	June 2022 - Current
<i>Senior Associate</i> Sept. 2023 – Current	
<i>Lead Associate</i> June 2022 – Sept. 2023	

Accomplishments:

- Increased team sprint velocity by more than 50%.
- Responsible for the rollout and training of GitHub Copilot across the organization, providing training and support to over 50 developers and SDET's within Product and Technology.
- Optimized the development environments by changing the pipeline deployments to share the same app service plan, resulting in thousands of dollars in monthly savings.
- Integrated third party API services for Health/Wellbeing programs.
- Configured slot deployments for application pipelines, saving 15-30 minutes of downtime each week.

Day-to-Day:

- Participate in project scope definitions, project estimating, refinement meetings and facilitate decision-making conversations.
- Coordinate with BA's, QA's, PM's, SDET's, and other Sprint team roles to ensure delivery of projects.
- Collaborate with UX to help design new features, ensuring usability and technical feasibility.
- Work closely with Business Analyst to clarify and document feature/user story requirements.
- Conduct peer code reviews, ensuring best practices and coding standards are followed.
- Mentor new team members, across all roles, to help with business knowledge, coding standards, best practices, and Sprint team processes.

General Inspection LLC, Davisburg, MI

Nov. 2018 – June 2022

Software Manager Feb. 2021–June 2022*Software Engineer* Nov. 2018 - Feb. 2021Accomplishments:

- Standardized version control practices by implementing Git and establishing code review requirements.
- Upgraded data storage infrastructure by migrating from XML files to relational databases (MySQL with Entity Framework), resulting in faster data retrieval and enhanced software functionality.
- Integrated third-party Modbus LED display buttons to designate bin numbers and allow for operators to mark bins as emptied and to automatically print a bag label.
- Developed state machine logic for Festo Motor Controllers to perform sequences of operations based on inputs, outputs and other state machine statuses.

Day-to-Day:

- Responsible for project management including timelines, resource allocation, and project prioritization.
- Designed, developed, and maintained communication modules in a real-time controller (EtherCAT, Ethernet, Modbus, RS232), ensuring seamless and reliable data exchange between systems.
- Developed machine logic in C++ to control FESTO-integrated motor controllers.
- Created and optimized algorithms for processing sensor data, to measure parts and find defects.
- Conducted code reviews, ensuring the teams defined best practices were followed and sufficient test coverage was added for new functionality.

Merlin Entertainments, Auburn Hills, MI

Mar. 2016 – Nov 2018

Cluster Technician Mar. 2016 – Nov 2018Accomplishments:

- Developed an Excel Macro workbook allowing for work orders to be requested by Duty Managers and tracked by the Technical Manager. The work order system was capable of automated emails for status updates on work orders.
- Researched and updated the lighting controller logic to change the day/night automated cycles in MINILAND, ensuring there was sufficient light during night mode to safely walk around the exhibit and resulting in significant cost savings by eliminating the need for third-party vendor interventions.

Day-to-Day:

- Responsible for maintaining ride and display equipment. Including start-up, shutdown, and maintenance procedures.
- Performed preventative maintenance on electronics and ride equipment.
- Troubleshoot ladder logic and PLC equipment in MINILAND. Troubleshooting MINILAND required the ability to read electrical diagrams and perform low-voltage testing.
- Rewired and recalibrated cart blasters / lasers on Kingdom Quest, as necessary.
- Responsible for building maintenance/repairs.
- Completed inspections and general maintenance, including but not limited to, safety inspections, fire extinguisher inspections, and weekly/monthly ride maintenance inspections.