Jay Mason

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SUMMARY

Experienced Software Engineer with over 10 years of full-stack development expertise, specializing in C#, TypeScript/React, and MSSQL/MySQL. Proven record of delivering scalable solutions and leading cross-functional teams. Actively seeking senior, lead, or engineering management roles to drive innovation and growth.

EDUCATION

BS in Engineering Management   December 2025
Arizona State University, AZ   4.00 GPA
Relevant Coursework: Programming fundamentals, data structures, PM, systems engineering and upper-division math.

A.A.S in Software Engineering   December 2019
Oakland Community College, MI   3.9 GPA

TECHNICAL SKILLS AND CERTIFICATIONS

Programming Languages: C#, Java, C++, JavaScript/TypeScript, PHP
Front-End: HTML5/CSS3, jQuery, React/Angular, Bootstrap, Figma/Miro, Webpack/Vite
Tools/Databases: Visual Studio/VS Code, AWS/ADO, MySQL, MSSQL, NoSQL (Cosmos DB), Entity Framework, Git/GitHub

PROFESSIONAL EXPERIENCE

WTW, Southfield, MI: Senior Associate - Software Engineer   May 2022 - Current
Responsible for developing new roadmap features for client-facing applications; role includes cloud optimization, third-party integrations, cross-functional collaboration, code reviews, mentoring, and supporting software development life cycle.
- Developed a REST API leveraging Azure OpenAI to interpret natural language queries, integrating with Cosmos DB for conversation history and Azure Data Warehouse via Semantic Kernel for data insights. Led end-to-end design and implementation to enable a scalable client-facing application while ensuring performance and security best practices.
- Led the organization-wide rollout of GitHub Copilot, training and supporting 50+ developers and SDETs.
- Updated Azure App Services for our Feature Branch environments reducing yearly cost by more than $10,000.
- Integrated third-party APIs and Azure Cosmos DB into an ASP.NET application to enhance client's wellbeing programs.
- Collaborate cross-functionally with BAs, PMs, QAs, SDETs, and UX to ensure timely feature delivery.
- Participate in project planning, estimations, and decision-making to drive successful software development.
- Mentor new team members in business knowledge, coding standards, best practices, and Agile team processes.

General Inspection LLC, Davisburg, MI: Software Engineer/Manager   November 2018 – May 2022
- Integrated MySQL/EF to store lot data resulting in 96% improvement in data retrieval and statistical calculations.
- Developed real-time communication modules (EtherCAT, Modbus, RS232) in C++ to control motors and equipment.
- Responsible for developing the part ejection and binning system logic for ARIS Machine (C++).
- Created and optimized sensor data algorithms (C++/C#) to measure parts and identify visual defects.
- Built User-Interface components in Windows Forms and Windows Presentation Foundation (WPF).

PROJECTS

Oakland Hope, Software Engineer (Volunteer)   2019 - Current
　　Designed and developed a custom web application using React/TypeScript and C# to manage volunteers and food pantry clients. The volunteer system manages over 5,000 volunteer profiles tracking over 200,000 volunteer hours. The food pantry system keeps track of over 14,000 clients, logging over 200,000 visits and 8.3 million pounds of food. Integrated several Azure services into the portal, including Azure OpenAI allowing for natural language querying of data and analytics.