

# Joshua Martin

## Software Engineer

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## Professional Summary

Experienced software engineer with 5 years of industry experience, specializing in driving high-impact projects and delivering scalable, efficient, and secure solutions. Co-creator of the Simple Measurement of Activity in Real Time (SMART) system, an embedded system for real-time health metric monitoring and data capture. Proficient in full-stack development, system architecture, and DevOps, with a strong focus on optimization, reliability, and performance. Skilled in AWS, CI/CD pipelines, and Agile methodologies, with a proven ability to translate business goals into technical achievements while mentoring and fostering collaborative team environments.

## Employment

### Software Development Engineer, Expedia Group

Nov 2022 - Present

- Designed and implemented a dynamic messaging rules engine, enhancing the capability to deliver customized messaging, achieving an initial cost savings of \$11.1M, and eliminating the need for future developer work.
- Designed and managed infrastructure components, encompassing AWS resources, continuous integration and rollback pipelines, and application monitoring and alerting systems, ensuring robust and scalable operational environments.
- Designed and implemented a scalable microservices architecture for a high-traffic application, reducing downtime by 10% and improving response time by 30%.
- Mentored 2 junior developers, resulting in a 30% reduction in onboarding time and higher code quality standards.
- Engaged in collaborative efforts with cross-functional stakeholders to translate business requirements into actionable technical tasks, ensuring alignment with business objectives.

### Software Development Engineer, Infovisa Inc.

Aug 2020 - Nov 2022

- Led the development and maintenance of 20+ financial technology applications with a focus on tax accounting and trust investment management.
- Managed the development of continuous integration tools, automated and unit tests, showcasing a commitment to implementing robust testing practices and efficient build processes.
- Engineered and maintained resilient database solutions, ensuring data integrity, optimal performance, and a foundation for scalable and efficient information management.
- Achieved notable performance improvements, including a 40% reduction in average build times and 64% faster load times for web applications, contributing to enhanced operational efficiency.
- Identified and mitigated critical vulnerabilities and exposures, safeguarding against potential threats to maintain the integrity and confidentiality of sensitive data.

### Full Stack, Embedded Software Engineer, Madonna Rehabilitation Hospital

Aug 2018 - May 2020

- Conceptualized and developed the Simple Measurement of Activity in Real Time (SMART) system, showcasing expertise in system design and implementation.
- Led as the integration engineer facilitating collaboration between software and hardware teams, ensuring seamless synergy in project development.
- Designed and implemented embedded software for hardware components.
- Designed and implemented a progressive web application for real time data visualization.
- Architected a robust database solution for storage and sanitation of data.
- Created comprehensive test suites ensuring 99.9% accuracy against industry standard tools.

### Software Development Engineer, Sandhills Global

May 2017 - Aug 2018

- Developed 4 web applications for trading and auctions, implementing meticulous design strategies to elevate user experiences and optimize system efficiency.
- Oversaw the seamless integration of 2 new novel auction platform applications into established software product lines, ensuring a cohesive and scalable software ecosystem.
- Led the design and optimization of APIs, implementing modifications to enhance functionality, performance, and maintainability.

## Education

### Bachelor of Science: Software Engineering, Minor in Mathematics

- University of Nebraska - Lincoln; Graduation - Aug 2020

## Tools & Technologies

Java, JavaScript/TypeScript, Dart, Python, Kotlin, C#, C, C++, HTML/CSHTML, CSS/LESS, React, jQuery, GraphQL, SQL, PostgreSQL, AWS, Agile