

# Joshua Martin

## Software Engineer

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## Professional Summary

Innovative software engineer with 5 years of industry experience and demonstrated success in contributing to high-impact open-source projects such as OpenMRS, a free medical record system. Lead software engineer and 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. Expertise in full-stack, web, backend development, database architecture, and DevOps. Proficient in Agile methodologies, emphasizing optimization, reliability, and performance. Advanced proficiency in version control systems including GitHub and Perforce.

## Employment

### Software Development Engineer, Expedia Group

Nov 2022 - Present

- Led the architecture and implementation of a dynamic messaging rules engine, enhancing the capability to deliver customized messaging.
- 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.
- Oversaw the maintenance of diverse backend services and progressive web applications, ensuring their reliability, performance, and alignment with project goals.
- Engaged in collaborative efforts with stakeholders to interpret features and extract requirements, fostering effective communication channels to bridge the gap between technical implementation and business needs.

### Software Development Engineer, Infovisa Inc.

Aug 2020 - Nov 2022

- Oversaw the maintenance and development of applications and APIs across a portfolio of more than twenty integrated financial technology products.
- Functioned as the lead software engineer responsible for tax accounting and trust investment management applications, demonstrating proficiency in complex financial systems.
- Applied Agile methodologies to interpret feature requests, collaborate closely with product teams, and deliver high-quality software solutions in alignment with strategic objectives.
- 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.
- Implemented integration, end to end, and unit tests ensuring accuracy and reliability.
- Established project roadmaps and sprint timelines to deliver projects efficiently.

### Software Development Engineer, Sandhills Global

May 2017 - Aug 2018

- Developed web applications for trading and auctions, implementing meticulous design strategies to elevate user experiences and optimize system efficiency.
- Oversaw seamless integration of novel applications and features 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

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