

Matthew R. Musselman

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Experience

2019 – Present Senior Software Engineer

SimVentions, Inc.

Remote

Web Application Project

- Architect application supporting several disparate customer configurations with a shared code base
- Refactor application to upgrade underlying framework from Zend Framework 2 to Laminas 3
- Upgrade application from PHP 7.3 to PHP 8.1 handling deprecations and breaking changes
- Spearhead unit testing and static analysis initiatives using PHPUnit, Mockery, psalm, and phpstan
- Configure Continuous Integration with GitLab to run unit test suite and static analysis tools
- Design custom CLI SDK to provide a single resource for common developer team tasks
- Manage production deployments on AWS GovCloud and proprietary customer platforms
- Manage testing deployments on AWS using EC2, RDS, and S3

Desktop Application Project

- Architect application in C++ and C# with .NET Framework and WPF
- Implement C++/CLI layer to allow C# and C++ interoperability
- Configure Continuous Integration with Jenkins using Nexus for automated version archival
- Design unit test suites for C++ code using Google Test with Google Mock
- Design unit test suites for C# code using XUnit and Moq

Personnel Manager

- Conduct weekly one-on-ones, discuss goals, and performance evaluations with five direct reports
- Provide mentorship to junior software engineers via code reviews and pair programming

2020 Adjunct Instructor in Computer and Information Sciences

Messiah University

Mechanicsburg, PA

- Co-taught two sections of CIS-181 Programming 1 in Python, comprised of 45 students
- Lecture using a hybrid approach of in-person, simulcast, and remote learning
- Conduct one-on-one with students to supplement lectures and review programming assignments
- Supervise two student teacher's assistants who help with grading and student questions

2017 – 2019 Software Engineer

Andculture, Inc.

Harrisburg, PA

- Develop RESTful API endpoints using .NET Core backed by Microsoft SQL database
- Manage deployments of testing and production workloads on Microsoft Azure
- Develop integration with third party APIs such as Twilio SMS and Algolia search index
- Implement custom frontend UI components in React and SCSS using high fidelity mockups

Scrum Master

- Spearhead adoption of Scrum for a team of twenty cross functional members
- Provide Agile coaching for software engineers, business analysts, and project stakeholders

2014 – 2017 Software Engineer

SimVentions, Inc.

Fredericksburg, VA

- Design and implement new major version of web application from Zend Framework 1 to 2
- Manage deployments of testing workloads on AWS using RHEL, CentOS, and Microsoft Server
- Design and implement user login feature utilizing DoD Common Access Cards

Junior Software Engineer

- Develop application services and endpoints using RESTful design principles
- Ensure application cross compatibility with MySQL and Microsoft SQL
- Design and implement various search capabilities including geospatial filtering and visualization

Certifications

2021 – 2026 **CompTIA Security+**

2020 – 2027 **Scrum Alliance Certified ScrumMaster (CSM)**

Education

2010 – 2014 Bachelors of Science in Computer and Information Sciences

Messiah College

Grantham, PA

- Computer Science and Software Development Concentrations
- College Honors Program (Major GPA: 3.690, Cumulative GPA: 3.650)

Skills

- PHP
- TypeScript
- JavaScript
- React
- Apache Web Server
- Apache Solr
- MySQL
- Doctrine ORM
- RHEL
- CentOS
- EC2
- RDS
- C#
- .NET Core
- Entity Framework
- Microsoft SQL