

Matthew R. Musselman

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Experience

- 2019 – Present** **Senior Software Engineer**
SimVentions, Inc. *Web Application Project*
Remote
- 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 Algoia 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 – 2024** **CompTIA Security+**
2020 – 2024 **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