Sam **Macaluso**

SOFTWARE DEVELOPER

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Work Experience

Amazon Web Services
SOFTWARE DEVELOPMENT ENGINEER

Arlington, VA
October 2019 - Present

- Developed scalable cloud-based solutions for enterprise clients using AWS services.
- Optimized system performance, reducing latency by 15 percent through code refactoring and architectural improvements.
- Collaborated with cross-functional teams to design and implement new features for AWS products.

Vertafore
SOFTWARE ENGINEER

East Lansing, MI
April 2019 - October 2019

- Developed and maintained Java web applications for insurance and securities clients.
- Migrated existing architecture and source code to a static Angular codebase.
- Designed and implemented an SQL database for user authentication.
- Overhauled infrastructure to utilize serverless computational architecture, improving scalability.

Better Games LLC
FOUNDER

East Lansing, MI
November 2018 - October 2019

- Designed and implemented the C# backend and netcode for communication with Steam.
- Managed publisher communications and handled legal documentation for company formation.

Michigan State University School of Planning, Design and Construction
DEVELOPER

East Lansing, MI
February 2019 - April 2019

- Utilized ArcGIS to display vacancy data statistics on a PHP-based website.
- Developed a login plugin with user management for the WordPress CMS.

Michigan State University Institute for Cyber-Enabled Research
TECHNICAL ASSISTANT

East Lansing, MI
July 2017 - February 2019

- Wrote build scripts and maintained packages for the High-Performance Computing Cluster (HPCC).
- Upgraded systems to a new node cluster, improving computational efficiency.

Michigan State University RS&GIS
WEB DEVELOPER

East Lansing, MI
November 2015 - March 2017

- Developed the admissions portal and course registration system for the MSU College of Social Work.
- Maintained the course registration website for the MSU School of Human Resources and Labor Relations.

Michigan State University Plant Research Laboratory
RESEARCH ASSISTANT

East Lansing, MI
December 2012 - January 2015

- Collaborated on projects involving Visual Phenomics, an image recognition system for analyzing photosynthetic data of plants.
- Developed PhenoMath, a tool for analyzing Visual Phenomics output using pattern recognition and outlier detection algorithms.

Projects

CMS G2
CMS USED BY INSURANCE AND SECURITIES COMPANIES TO MAINTAIN APPOINTMENTS AND AGGREGATE DATA.

2019

- Developed in Java with an LDAP user system for authentication.
- Integrated with AWS for cloud-based data storage and processing.
- Streamlined appointment management and data aggregation for clients.

Puttin' Around
ONLINE MULTIPLAYER MINI GOLF GAME DISTRIBUTED VIA STEAM.

2019

- Developed in C# using the Unity engine.
- Implemented dedicated servers for seamless multiplayer gameplay.
- Achieved distribution on Steam, reaching a wide audience.

MSU Social Work Undergraduate Application System
APPLICATION SYSTEM FOR MSU STUDENTS TO APPLY TO THE SCHOOL OF SOCIAL WORK.

2017

- Built with PHP and a MySQL database for efficient data management.
- Included an administration portal for managing applications (not publicly available).
- Simplified the application process for students and administrators.

MSU School of Human Resources and Labor Relations Course Registration

WEB-BASED COURSE REGISTRATION SYSTEM FOR MSU'S SCHOOL OF HRLR.   *2017*

- Developed in PHP with a MySQL backend for dynamic data handling.
- Provided an intuitive interface for students to register for courses.
- Improved administrative efficiency by automating registration workflows.

Education

Michigan State University   *East Lansing, MI*

COMPUTER SCIENCE   *2018*

- Placed 4th at the ACM ICPC 2012.
- Placed 3rd at MHacks 1.
- Relevant coursework: Algorithms, Data Structures, Software Engineering, Machine Learning.

Skills

Programming Languages	C#, Go, Java, JavaScript/TypeScript, PHP, Python, SQL
Frameworks and Libraries	Angular, React
Cloud and DevOps	AWS, Docker, Kubernetes
Tools and Other Skills	Git, CI/CD, REST APIs, Agile Development