Sam **Macaluso**

Software Developer

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Work Experience

Amazon Web Services   *Arlington, VA*

Software Development Engineer   *October 2019 - Present*

Vertafore   *East Lansing, MI*

Software Engineer   *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   *East Lansing, MI*

Founder   *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   *East Lansing, MI*

Developer   *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   *East Lansing, MI*

Technical Assistant   *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   *East Lansing, MI*

Web Developer   *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   *East Lansing, MI*

Research Assistant   *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, Rust, SQL
Frameworks and Libraries	Angular, React
Cloud and DevOps	AWS, Docker, Kubernetes
Tools and Other Skills	Git, CI/CD, REST APIs, Agile Development