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Work Experience

SOFTWARE ENGINEER

Amazon Web Services Arlington, VA

SOFTWARE DEVELOPMENT ENGINEER October 2019 - Present

Vertafore East Lansing, MI

April 2019 - October 2019

East Lansing, MI

2017

November 2015 - March 2017

• 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.

Better Games last ucture to utilize serverless computational architecture, improving scalability. East Lansing, MI

November 2018 - October 2019

· Designed and implemented the C# backend and netcode for communication with Steam.

Michigand State University School of Planhfille, Design and Construction. East Lansing, MI February 2019 - April 2019

• Utilized ArcGIS to display vacancy data statistics on a PHP-based website.

Michigan State University Institute for Cyber-Enabled Research

TECHNICAL ASSISTANT July 2017 - February 2019

· Wrote build scripts and maintained packages for the High-Performance Computing Cluster (HPCC).

Michigan State University RS&GIS improving computational efficiency. East Lansing, MI

WEB DEVELOPER

• Developed the admissions portal and course registration system for the MSU College of Social Work. East Lansing, MI

Michigan State Oniversity Plant Research Laboratory of Human Resources and Labor Relations.

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.

Puttin Around appointment management and data aggregation for clients.

Online multiplayer mini golf game distributed via Steam. 2019

• Developed in C# using the Unity engine.

· Implemented dedicated servers for seamless multiplayer gameplay.

MSU Social Work Undergraduate Application System

APPLICATION SYSTEM FOR MSU STUDENTS TO APPLY TO THE SCHOOL OF SOCIAL WORK.

• Built with PHP and a MySQL database for efficient data management. • Included an administration portal for managing applications (not publicly available).

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