ANDY MAHONEY

Computer Scientist

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 https://github.com/Saious119

EXPERIENCE

Intermediate App Developer
UPS

📅 October 2022 - Present   📍 Louisville, KY

- Worked in the modernization group, building new apps from the ground up on .NET 6, using new Rest APIs and Blazor
- Architected, developed, and deployed a highly performant and scalable service to interface between multiple apps using Redhat AMQ and Oracle DB
- Created an authentication API in .NET 6 and deployed into production via Jenkins and Redhat Openshift 4
- Worked on several modules of a .NET 6 and Java app using microservice and onion architectures with new CI/CD pipelines

App Developer I
UPS

📅 June 2021 - October 2022   📍 Louisville, KY

- Updated legacy C, C++, and .NET Framework apps using .NET 6
- Added new features such as Azure login support and implementing No SQL databases in older applications
- Migrated apps from windows server 2016 to Open Shift Container Platform 4
- Performed security patches on ASP.NET web apps including moving apps from .NET Framework to .NET 6
- Used SonarQube to detect and resolve bugs, security flaws, and code smells of ASP.NET web apps and worked on automation and test pipelines with Jenkins and ZAP
- Learned and Implemented in daily work life the principles of DevOps and Agile development

Lab Director of the
Clarkson Open Source Institute
Clarkson University

📅 August 2017 – April 2021   📍 Potsdam, NY

- Managed the research lab, including finances, resources, and resolved conflicts
- Taught Workshops on Fortran 77, Fortran 18, and popular Esolangs
- Made a webserver for personal website (www.fortrash.com)
- Gave several Lightning Talks (5 minute CS presentations)

Undergraduate Researcher
Clarkson University

📅 September 2017 – August 2020

- Worked with Dr. Banavar to detect stress in user voices with home voice assistants, using technologies like AWS Lambda, C++, Python, and Matlab
- Worked with Dr. Banavar to create a software control scheme for turtle bots, using data gathered from an EEG headset

EDUCATION

Bachelor of Science, Computer Science
Clarkson University

📅 August 2017 - May 2021

PROJECTS

Personal Website
- Setup an Nginx webserver to create a personal website using Astro.js

Dungeon-Redux
- A rogue like survival game written in C#
- Written with the Monogame library for graphics
- Distributed from personal website; currently in Alpha

Discord Bots
- Made markov chain based text generator bots in Go
- Made several bots in Discord.js
- Made a bot able to scrape the web for images and play audio in voice chat
- Made two discord bots in Discord.NET capable of using slash commands to interact with a MongoDB database hosted on Atlas

Manga Tracker Web App
- A web app made in ASP.NET Blazor on .NET 6
- Supports OAuth with Discord and local DB login options
- Users can store and keep track of their manga collection with a MongoDB database
- Currently running as a standalone app with releases on my Github

SKILLS

- Programming languages:
  - C#, C++, C, Python, Javascript, Rust, Fortran 77, Fortran 18, Java, Matlab, HTML and CSS, Go, SQL, LaTex, N1QL
- Tools:
  - Unreal Engine 4, Unity, AWS, Google Actions, SSH, nginx, git, ROS, Jenkins, Red Hat Openshift, OWASP ZAP, SonarQube, MongoDB, ASP.NET, Couchbase DB, Visual Studio 2022, Kubernetes, Google Cloud Platform
- Foreign Languages:
  - French (intermediary)
  - Japanese (Basic/Novice)