

ANDY MAHONEY

Computer Scientist

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📍 Louisville, KY

EXPERIENCE

Intermediate Software Engineer

UPS

📅 October 2022 - Present 📍 Louisville, KY

- Architected, developed, and deployed a highly performant and scalable service to interface between multiple apps using Red-hat AMQ and Oracle DB
- Created an authentication API in .NET 8 and deployed into production via Jenkins or Azure Dev Ops and Redhat Openshift 4 or GCP
- Worked on several modules of a .NET 8 and Java app using microservice and onion architectures with new CI/CD pipelines
- Created new web apps using Angular frontends with .NET 8 backends in a small team
- Created new RESTful APIs in .NET 8 that leverage Entity Framework to work with a MS SQL Database

Entry Level Software Engineer

UPS

📅 June 2021 - October 2022 📍 Louisville, KY

- Wrote and deployed several highly performant Java 17 applications using Maven and Spring Framework
- Updated legacy C, C++, and .NET Framework apps to .NET 6
- Added new features such as Azure SSO login support and implementing No SQL databases in older applications
- Migrated apps from windows server 2016 to Open Shift Container Platform 4 to utilize high availability
- 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

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 8
- Supports OAuth with Discord and local DB login options
- Users can store and keep track of their manga collection with a PostgreSQL database
- Currently running as a standalone app with releases on my Github

SKILLS

- Programming languages:
 - C#, Typescript, C++, C, Python, Javascript, Rust, Fortran 77, Fortran 18, Java, Matlab, HTML and CSS, Go, SQL, PL/SQL, LaTeX, 6502 Assembly
- Tools:
 - Unreal Engine 4, AWS, Google Actions, SSH, nginx, git, ROS, Jenkins, Red Hat Open-shift, OWASP ZAP, SonarQube, MongoDB, ASP.NET, Couchbase DB, Cockroach DB, Visual Studio 2022, IntelliJ, Kubernetes, Google Cloud Platform, Azure Dev Ops, Godot, Docker
- Foreign Languages:
 - French (intermediary)
 - Japanese (Basic/Novice)