

AARON MCCARTHY

+16063035428 | amccarthy9904@gmail.com

github.com/amccarthy9904

SUMMARY

Expert in architecting high-availability, asynchronous systems for seamless, reliable operations. Proficient across diverse technologies and tools, ensuring solutions that exceed expectations. Proven ability to craft innovative, robust solutions for any challenge.

EDUCATION

Montana State University

Bachelor's, Computer Science

PROFESSIONAL EXPERIENCE

Lumen

Sr. Software Engineer

Seattle, WA, USA

November 2021 - Present

- Created event driven server recommissioning pipeline with RabbitMQ
- Automated delivery of pre-configured virtual HCI clusters to customers
- Built Automated Azure Hyper Converged Infrastructure deployment pipeline
- Reduced server recommissioning time by 30% with increased reliability

The Boeing Company

Software Engineer

Seattle, WA, USA

January 2019 - November 2021

- Lead design and implementation of virus scanning API microservice
- Used RabbitMQ/Java to create reliable scalable service, reduced scan time by 60%
- Built Azure DevOps CI/CD pipelines for .NET apps, replaced manual deployments
- Reduced Gradle build time by 80% on a monolithic Java project

TechLink

Software Engineer Intern

Bozeman, MT, USA

January 2017 - November 2019

- Developed automated testing framework in C# with Selenium
- Wrote automated tests with MSTest for Dept. of Defence
- Used Agile to collaborate with colleagues through GitLab's Kanban
- Lead initial testing and design work for new desktop application

PROJECTS & OUTSIDE EXPERIENCE

Biomedle

- Daily geography quiz game written in Node with React and Redis
- Crafted an intuitive React.js interface, optimizing navigation with component-based architecture
- Implemented automated export workflows, dynamically adjusting export parameters

Currency Converter

- Created Angular web app with Bootstrap hosted on AWS that converts currency
- Asynchronously fetches exchange rates in JSON from cryptocompare.com's API

IMDB Movie Data Analysis

- Created a MySQL database with imdb.com's datasets
- Created Naive Bayes and Quadratic Regression models with sklearn to make predictions
- Found relationships between actors age and final movie score

Twitter Reply Bot

- Built a Twitter bot in Python that monitors other accounts
- Asynchronously sends replies to monitored accounts when they tweet

arm@ML

- Exploratory work in the construction and training of basic Neural Networks
- Implemented PSO, K-means, DBscan, Genetic Algorithm, Evolution Strategy in Java
- Trained Radial Basis Function and Sigmoidal Neural Networks using Backpropagation

SKILLS

Skills: Node.js, AngularJS, Agile, C#, Data Analysis, Data Science, Data Structures & Algorithms, Development Operations (DevOps), Django, Docker, Google Cloud Platform, Gradle, Groovy, JavaScript, jQuery, Git, HTML/CSS, Java,

PowerShell, MySQL, NumPy, Postgres, RabbitMQ, REST APIs, SCRUM, Selenium, Tensorflow, Kubernetes, Python, TypeScript, NoSQL, FastAPI, Software Testing