Aaron McCarthy

Senior Software Engineer

Seattle, WA

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ABOUT

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.

EXPERIENCE

Lumen Seattle WA

Sr. Software Engineer

2021 - present

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

Boeing Everett WA

Software Engineer

2019 - 2021

- Lead design and implementation of virus scanning API microservice
- Used RabbitMQ in 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 Bozeman MT

Software Engineer Intern

2017 - 2019

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

EDUCATION

Montana State University

Bozeman MT

BS in Computer Science

2018

PROJECTS

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

ListShare

- Built a website using Django hosted on AWS
- Created interface with HTML/CSS, managing data with SQLite

Twitter Reply Bot

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

Pizza Ranch Adventure

- Created a side-scrolling game in Python using Pygame
- Implemented jumping mechanics, multiple music tracks, collision detection

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

Programming Languages: Python, Java
Cloud Platforms: AWS, GCP, Azure,
Infrastructure as Code: Terraform
CI/CD: Azure DevOps, GitLab CI/CD
Database Systems: SQL, NoSQL

Distributed Services/Messaging Systems: RabbitMQ
 Containerization/Orchestration: Kubernetes, Docker