

Aaron McCarthy

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EXPERIENCE

Lumen

Sr. Software Engineer

Seattle WA

2021 - present

- Built Ansible inventory management system in Python
- Automated collection and distribution of real time inventory info
- Building Automated Azure Hyper Converged Infrastructure deployment pipeline

Boeing

Software Engineer

Everett WA

2019 - 2021

- Created flight software virus scanning cloud microservice
- Used RabbitMQ with Java to implement Remote Procedure Call design pattern
- Shifted legacy .NET apps into Cloud with Azure DevOps CI/CD pipelines
- Reduced Gradle build time by 80% on a monolithic Java project

TechLink

Software Engineer Intern

Bozeman MT

2017 - 2019

- Developed custom 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

EDUCATION

Montana State University

BS in Computer Science

Bozeman MT

2018

PROJECTS

IMDB Movie Data Analysis

- Designed and created a MySQL database with imdb.com's datasets
- Created Naive Bayes and Quadratic Regression models with sklearn to make predictions

Twitter Reply Bot

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

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

ListShare

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

Pizza Ranch Adventure

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

Machine Learning

- Implemented PSO, K-means, DBscan, Genetic Algorithm, Evolution Strategy in Java
- Trained Radial Basis Function and Sigmoidal Neural Networks using Backpropagation
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Skills

- Languages: Java, C#, Python, JavaScript, HTML/CSS, LaTeX
- Tools: Angular, Node.js, Spring, Git, AWS, OpenStack, Ansible
- Principals: Agile, Scrum, Kanban, TDD, Design Patterns, Unit Tests, Automation, UML