

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 up to date inventory info across multiple systems
- Extended Automated Azure Hyper Converged Infrastructure deployment pipeline

Boeing

Programmer Analyst II

Everett WA

2019 - 2021

- Designed scalable Virus Scanner cloud microservice
- Implemented Remote Procedure Call design pattern with RabbitMQ
- Transformed old application into Cloud service with AzureDevOps CI/CD pipelines
- Reduced Gradle build time by 80% on a monolithic Java project

TechLink

Software Engineer Intern

Bozeman MT

2017 - 2019

- Developed automated testing framework that wraps FlaUI and Selenium
- Wrote automated tests for software developed by the Department of Defense
- Collaborated with a software development team using GitLab's Kanban

EDUCATION

Montana State University

BS in Computer Science

Bozeman MT

2018

PROJECTS

Twitter Reply Bot

2021

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

Currency Converter

2021

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

ListShare

2019

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

Pizza Ranch Adventure

2018

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

Machine Learning

2017

- Implemented PSO, K-means, DBscan, Genetic Algorithm, Evolution Strategy
- Trained Radial Basis Function and Sigmoidal Neural Networks using Back Prop

IMDB Movie Data Analysis

2017

- Designed and created a database using MySQL to hold data from [imdb.com](https://www.imdb.com)
- Queried the database and analyzed data using sklearn, scipy, and plotly

KNOWLEDGE

- 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