

Aaron McCarthy

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EXPERIENCE

Boeing

Programmer Analyst

- Extending functionality of airplane software delivery network
- Developed scalable Virus Scanner microservice using RabbitMQ
- Reduced Gradle build time by 80% on a multi level Java project

Everett WA

2019 - present

TechLink

Software Engineer Intern

- 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

Bozeman MT

2017 - 2019

EDUCATION

Montana State University

BS in Computer Science

Bozeman MT

Graduated: 2018

PROJECTS

Twitter Reply Bot

2021

- Built a Twitter bot using Tweepy that watches a list of accounts
- Asynchronously replies to every account 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

Coinswap

2018

- Parsed cryptocurrency exchange rate info using shapeshift.io's API
- Designed an algorithm to find profitable exchange paths between cryptocurrencies

Machine Learning

2017

- Implemented PSO, K-means, DBscan, Genetic Algorithm, Evolution Strategy
- Trained Radial Basis Function and Sigmoidal Neural Networks using Back Prop
- Compared the performance of algorithms in formal scientific paper

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
- Used quadratic regression and naive bayes to correlate and classify the data

KNOWLEDGE

- Languages: Java, C#, Python, JavaScript, HTML/CSS, XML, JSON, LaTeX
- Tools: Angular, Node.js, Git, GitLab, Linux
- Principals: Agile, Scrum, Kanban, TDD, Design Patterns, Unit Tests, Automation, UML
- Databases: SQL, MSSQL, SQLite, ER Diagrams, Relational Algebra