

# Aaron McCarthy

✉ amccarthy9904@gmail.com

📍 Everett, WA

🌐 github.com/amccarthy9904

☎ 603-303-5428

## EXPERIENCE

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### Boeing

Programmer Analyst

Everett WA

2019 - present

- Optimized mission critical system that delivers software to airplanes
- Developed scaleable Virus Scanner microservice using RabbitMQ
- Gradleized monolithic application with multiple layers of nested projects, each with unique dependencies

### TechLink

Software Engineer Intern

Bozeman MT

2017 - 2019

- Developed automated web/desktop application 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

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### Montana State University

BS in Computer Science - GPA: 3.52

Bozeman MT

Graduated: 2018

## PROJECTS

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### Currency Converter

2021

- Created Angular web app hosted on AWS that applies exchange rates to user inputs
- Asynchronously fetches exchange rates from exchangeratesapi.io

### 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

### PFL Order Submitter

2018

- Created WPF application that deserializes product information in JSON from PFL's API

### 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
- Queried the database and analyzed data using sklearn, scipy, and plotly
- Used ML techniques to show interesting correlations in the data

## KNOWLEDGE

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- 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, Entity Relationship Diagrams, Relational Algebra