

# Aaron McCarthy

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📍 [Everett, WA](#)

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## EXPERIENCE

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### Boeing

Programmer Analyst

- Extending functionality of airplane software delivery network
- Developed scaleable 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

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### Montana State University

BS in Computer Science

**Bozeman MT**

Graduated: 2018

## PROJECTS

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### Currency Converter

2021

- Created Angular web app with Bootstrap hosted on AWS that converts currency
- Asynchronously fetches exchange rates from [exchangeratesapi.io](https://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](https://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://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