

William Joseph Maddock

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Professional Summary

Recent Computer Science graduate from Metropolitan State University of Denver with proficiency in Rust, Go, Java, Python, Bash, Kotlin, and SQL, and experience with C/C++ from academic projects. Certified in AWS Solutions Architect, AWS Certified Security - Specialty, Programming with Google Go, and Rust Programming specializations, with hands-on experience in cloud computing, RESTful APIs, and high-performance backend development. Eager to contribute to innovative software projects by leveraging skills in scalable system design and systems programming languages.

Education

B.S. Metropolitan State University of Denver, Computer Science Aug 2022 – May 2025

- GPA: 3.13/4.0
- **Coursework:** Cloud Computing, Algorithms, Web/Mobile App Development, Statistics, Data Science/Machine Learning (DS/ML)

Certifications:

- [AWS Solutions Architect](#) (AWS), Completed July 2025
- [AWS Certified Security - Specialty \(SCS-C02\)](#) (AWS), Completed July 2025
- [Data Science Specialization](#) (Coursera), Completed July 2025
- [Deep Learning Specialization](#) (Coursera), Completed July 2025
- [SSCP](#) (ISC²), Completed July 2025
- [ITIL v4 Certification Preparation Specialization](#) (EDUCA), Completed July 2025
- [Programming with Google Go Specialization](#) (Coursera), Completed July 2025
- [Rust Programming Specialization](#) (Coursera), Completed August 2025

Projects

Heart Attack Risk Assessment Web App, MSU Denver Spring 2025

- Developed a scalable web application using Python and AWS services (SageMaker, RDS, ECS), achieving 83% accuracy in risk assessment.
- Implemented multi-threaded processing to handle concurrent user requests efficiently, aligning with high-performance software principles.
- Created technical documentation and provided Tier 2 support for end-users.

Secure Web Access Control System, MSU Denver Fall 2024

- Built a role-based access control system using Java and AWS IAM, leveraging RESTful APIs and TCP/IP networking protocols.
- Enhanced security through secure HTTP endpoints and optimized system performance.

github.com/willmaddock/final-project

Spring Boot Microservices, MSU Denver Fall 2022

- Developed scalable Java microservices using Spring Boot, deployed on AWS ECS for high-performance cloud applications.
- Optimized API response times and handled concurrent requests using multi-threading techniques.

Auraria Mobile Parking (AMP), Lead Developer, MSU Denver Senior Project Fall 2024

- Designed and developed an Android app using Kotlin, integrating AWS S3 and DocumentDB for scalable storage on Linux-based systems.

github.com/willmaddock/CS4360TeamApp

- Led Agile development with CI/CD pipelines, optimizing real-time performance for mission-critical use.



Experience

Amazon, Flex Driver and Warehouse Associate (DDE9)

Denver, CO

Summer 2023 – Present

- Operated in a high-throughput environment, using Linux-based systems and Bash scripting to automate inventory processes, improving efficiency by 15%.
- Collaborated on troubleshooting operational issues, contributing to mission-critical system reliability.

Technical Skills

Languages: Rust, Go, Java, Python, Bash, Kotlin, SQL, C/C++ (academic experience)

Technologies: AWS (EC2, Lambda, SageMaker, RDS, ECS, S3, IAM, DynamoDB, DocumentDB), Docker, Git, CI/CD (GitHub Actions), Linux (Ubuntu, CentOS), Shell Scripting

Competencies: Software Development (RESTful design, multi-threading, concurrent programming, high-performance coding), Cloud Computing, Backend Development, System Administration, Technical Documentation, Distributed Systems