Adam McDonald

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SUMMARY

Highly motivated Computer Science junior with experience in both software engineering and software utilization. Skilled in Java, Python, and data analytics, with a focus on creating efficient, user-friendly solutions. Eager to apply problem-solving and leadership skills in a dynamic business environment.

EXPERIENCE

Digital Services Intern

Aflac   **June 2025 - Present, Columbus, GA**

· **Designed and built a full-stack internal tool enabling the Enterprise Architecture team to search, filter, and manage Aflac's portfolio of 3,700+ applications**, supporting strategic enterprise architecture decisions.
· **Collaborated with senior engineers through iterative code reviews**, refining the app's design and ensuring alignment with Aflac's coding standards and best practices.
· **Proposed and implemented configuration design updates in LeanIX**, enhancing visibility and usability in 300+ fact sheets for enterprise architecture stakeholders.

PROJECT

API Stock Viewer App (Java)

Personal Project · github.com/AdamRoMcDonald/Stock-Market-Tracker

· Engineered a complex, user-friendly application with GUI to visualize stock market data, incorporating real-time updates from a financial data API to provide accurate, timely insights for users.
· Demonstrated development skills by utilizing multiple complex libraries in large-scale project, over 10 classes and 1000+ lines of code and variety of design elements.
· Exhibited skills in information retrieval and natural language processing by securely retrieving and manipulating both API and user-provided data.

AMIRA Bitcoin Trading Bot (Python)

Personal Project · github.com/AdamRoMcDonald/AMIRA_BTC_Bot

· Created and deployed a Python-based AMIRA Bitcoin Trading Bot that utilizes the Kraken API, automating trade execution with predictive analytics, and achieved a 25% improvement in trading accuracy while maintaining low computational demands.
· Conducted backtesting across 3 months of historical data, yielding an average simulated return of 13% while adjusting for transaction fees and market volatility.
· Enhanced bot resilience using error handling and reconnection strategies to maintain consistent API interactions in unstable network conditions.

Caesar Cipher Tool

Personal Project · github.com/AdamRoMcDonald/Java-Caesar-Cipher

· Developed a Caesar Cipher tool in Java that streamlined encryption and decryption processes, facilitating enhanced data security and demonstrating algorithmic robustness through extensive testing.
· Applied strong problem-solving skills to create efficient encryption and decryption algorithms, effectively handling user input, error cases, and data processing with impressive processing time of O(n).
· Collaborated with feedback providers to iteratively refine the GUI design, aligning software functionality with user needs to improve usability and support internal testing processes.

EDUCATION

Bachelor of Science in Computer Science (Currently enrolled as a senior)

Columbus State University · Columbus, GA · 2026

· Awarded full academic scholarship as a result of good grades
· Honored for scholarly excellence on both the University President's and Dean's lists

SKILLS

Programming Languages: Java, Python, SQL, C#, Ruby, Assembly
Software Tools: Microsoft Office (Excel, word, etc...), Git, Docker, API integration, Unix/Linux
General Skills: Strong communication, time management, adaptability, project management, responsibility, multi-level organization