CALEB HERRERA

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EXPERIENCE

Capital One – Plano, TX   Feb 2025 – Present
Associate Software Engineer
- Supported applications handling the distribution and inventory of TLS certificates across Capital One.
- Improved the horizontal scalability of application by implementing SNS fanout architecture using AWS SNS/SQS.
- Resolved customer-reported application issues by identifying root causes and implementing effective fixes.

Capital One – Plano, TX   Feb 2024 – Feb 2025
Associate Software Engineer
- Owned Java Spring Boot API handling dealership and auto loan information by interfacing with an oracle database.
- Led the migration of JavaScript web application to consume a new REST API in line with client requirements.
- Automated process for onboarding ~1000 dealerships using Python and Playwright.
- Supported team applications hosted on AWS using ECS, S3, and Lambda functions.
- Modernized legacy applications to comply with Java and Spring Boot regulatory standards.

Goldman Sachs – Dallas, TX   Jun 2022 – Aug 2022
Engineering Summer Analyst
- Automated daily reporting process, cutting down execution time from over an hour to less than three minutes.
- Developed a Tableau dashboard to dynamically reflect state, and metrics, of programs managed by team.
- Supported team operations by performing several data analysis tasks utilizing Python, SQL, and Alteryx Designer.

EDUCATION

The University of Texas at Austin   Master of Science in Computer Science   Aug 2025 – Present

Texas A&M University   Master of Computer Science   Jan 2025 – May 2025

Texas A&M University   Bachelor of Science in Computer Engineering   Aug 2019 – May 2023
Minor: Mathematics

CERTIFICATIONS

- AWS Solutions Architect Associate   Oct 2024

SKILLS

- Languages: Python, Java, JavaScript, C++, SQL, HTML, CSS, C, Assembly
- Methodologies: Agile, Object-Oriented Programming, REST APIs, Cryptography, Machine Learning, Algorithms
- Platforms: AWS, GitHub, Jenkins, Jira, Maven, VS Code, MS Excel (Pivot Tables, VLOOKUP)

PROJECTS

Machine Learning Man in the Middle Intrusion Detection System -   Fall 2023
Independent
- Trained a K-means Clustering model to identify potential intruders on LAN using the Scikit-learn and Pandas Python library for data processing.
- Simulated server/client TCP connection traffic on a Virtual Machine network using Sockets and Threading.
- Collected training data using Scapy Python library to capture and interpret network packets.

Automated Spice Rack to Assist Motor Impaired Peoples -   Spring 2023
Collaborative
- Designed a system utilizing a Raspberry Pi running a Java based user interface, and an Arduino motor controller to manage stepper and servo motors for accurate spice distribution.
- Worked in a team of four to pitch, design, and prototype a working product over the course of one semester.
- Applied an Agile workflow model to divide greater tasks into deliverable sprints.