CALEB HERRERA

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EDUCATION

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

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

CERTIFICATIONS

- AWS Solutions Architect Associate Oct 2024

EXPERIENCE

Capital One – Plano, TX Feb 2024 – Present
Associate Software Engineer

- Owner of 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.

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.

ACTIVITIES

Texas A&M Cybersecurity Club – College Station, TX Fall 2021
Member

- Engaged in weekly meetings covering topics in network/system defense, web exploitation, cryptography, etc.
- Attended presentations on Cybersecurity career opportunities given by industry speakers from a range of companies.
- Awarded a certificate of completion for the Red Hat Alliance System Administration I course for RHEL.