

# CALEB HERRERA

calebherrera@gmail.com • (512) 993-6434 • <https://calebherrera.github.io/> • Clearable

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## EDUCATION

### Texas A&M University

Bachelor of Science in Computer Engineering  
Minor: Mathematics  
Overall GPA: 3.38

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## EXPERIENCE

### Capital One – Plano, TX

Feb 2024 – Present

#### Associate Software Engineer

- System owner for Java Spring Boot API which handles dealership and auto loan information.
- Led the migration of JavaScript web application to consume a new REST API in line with client requirements.
- 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.

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## SKILLS

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

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## 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.

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## 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.

### Texas A&M Howdy Hack – College Station, TX

Fall 2021

#### Competitor

- Competed in a 24-hour long competition hosted by Texas A&M University in a team of four students.
  - Designed a student productivity app focused on time management, convenience, and integration with student portal.
  - Developed a prototype using skills learned in competition including Figma and the Tkinter Python module.
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