

# Edgar Ramirez

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## EDUCATION

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### Georgia State University

Atlanta, Georgia

B.S. in Computer Science

Expected Graduation, July 2026

- **GPA:** 3.97/4.0, President's List
- **Related Coursework:** Operating Systems, Data Structures, Algorithms, Software Engineering, Computer Organization and Programming, Probability and Statistics, Linear Algebra

Data Science Certificate

July 2026

- **Related Coursework:** Data Mining, Database Systems, Machine Learning, Fundamentals of Data Science

## EXPERIENCE

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### Boldyn Networks

Austin, Texas

Network Service Intern

Summer 2025

- Configured network switches using PuTTY, applying foundational knowledge of TCP/IP, LAN, and WAN principles.
- Performed fiber diagnostics using Visual Fault Locators (VFL) and optical power meters to identify and resolve connectivity issues.
- Partnered with senior network engineers across multiple university campuses to deliver hands-on experience in network infrastructure deployment and maintenance.

### John Summers Inc

Atlanta, Georgia

HVAC Apprentice

Jan 2020 – Current

- Systematically troubleshoot and repaired electromechanical control systems, applying root-cause analysis to minimize system downtime.
- Analyzed system performance and environmental metrics to optimize residential climate control and ensure safety compliance.
- Delivered technical support and operational guidance to end-users for newly installed residential systems.

## PROJECTS

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### Financial Stability Predictor

Atlanta, Georgia

Software Team

Feb 2026 – May 2026

- Developed a predictive machine learning model using a K-Nearest Neighbors (KNN) algorithm to forecast national financial stability.
- Sourced, cleaned, and pre-processed large-scale economic datasets from the World Bank to train and validate the model.
- Applied advanced data mining techniques to identify key economic indicators, optimizing the algorithm for maximum predictive accuracy.

### Praxis

Atlanta, Georgia

Software Team

Jan 2026 – May 2026

- Collaborated within an Agile team to develop a full-stack "Campus Marketplace" web application for a semester-long capstone project.
- Engineered robust back-end architecture using ASP.NET Core, designing comprehensive Entity-Relationship (ER) diagrams to structure the underlying database.
- Developed dynamic and responsive front-end user interfaces utilizing Angular to ensure a seamless experience for students.

### Rocket Technology GSU

Atlanta, Georgia

Software Team

Jan 2024 – Aug 2025

- Spearheading the development of embedded software for a level 1 rocket aiming to reach an altitude of over 1000m, focusing on real-time data acquisition and system optimization.
- Developed and tested load cell integration software using HX711, ensuring accurate force measurements with  $\pm 0.4$  kg precision during tests.

- Integrated SD card data storage and reduced memory usage by 15% through code optimization, ensuring efficient handling of sensor readings.

## **SKILLS**

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**Programming:** Python, SQL, Java, C/C++, Typescript, RISC-V

**Tools:** Jupyter Notebooks, Git, Agile, Arduino, BASH, CLion, PyCharm, Visual Studio Code, Data Cleaning, Data Visualization, Supervised / Unsupervised Learning