Jose Ramirez

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Summary

Boston University Computer Science graduate (May 2025) with a strong understanding of version control systems (Git), Linux environments, and scripting (Python, Bash), as demonstrated through systems programming projects. Eager to gain hands-on experience in DevOps, contributing to CI/CD pipelines and cloud infrastructure (AWS) by automating routine operations and monitoring system health, with a keen interest in system reliability and automation.

Education

Boston University   **January 2023 - May 2025**
College of Arts and Sciences
Bachelor of Arts in Computer Science

Experience

BeHome Developers   **Summer Intern 2023 & 2024**
Web & Data Management Intern

- Maintained and updated the company website using WordPress, ensuring accurate and timely property listings and content.
- Managed and organized real estate data in MongoDB and Excel, improving data accessibility and reporting for the team.
- Collaborated with staff to streamline data workflows and support digital marketing initiatives.
- **Tools:** WordPress, MongoDB, Microsoft Excel

Projects

Sentiment Analysis & Stock Price Prediction for Tesla ([Github link](#))
Boston University, CS 506 Data Science Tools and Applications Unique Project 2025

- Engineered a data pipeline to extract, clean, and aggregate 460GB of Reddit and financial news data for Tesla, enabling large-scale sentiment analysis.
- Fine-tuned a RoBERTa transformer model for sentiment classification and integrated sentiment features with stock data to train and optimize XGBoost trading models.
- Designed and simulated a trading strategy that outperformed both always-buy and buy-and-hold baselines by 41.8%, with results visualized through custom analytics dashboards.
- **Tools**: Python, Pandas, scikit-learn, XGBoost, Hugging Face Transformers, Matplotlib, Make, Git

Systems Programming Projects – Codecrafters.io
Personal Projects, 2024

- Built a multi-client HTTP/1.1 server in C from scratch, gaining hands-on experience with TCP sockets, HTTP protocol parsing, and concurrent client handling. ([Github link](#))
- Developed a basic Git implementation in Python, including repository initialization, commit creation, and repository cloning, deepening understanding of Git internals, object storage, and transfer protocols. ([Github link](#))
- Practiced low-level debugging, protocol design, and test-driven development while working through staged, real-world engineering challenges.
- **Tools:** C, Python, TCP Sockets, HTTP, Git, Linux, Bash

Skills

Certification: AWS Cloud Practitioner
Programming Languages: Javascript, SQL, C, Python, Java, Bash, OCaml, Lua, and HTML/CSS
Developer Tools: React, Next.js, Tailwind, Vite, AWS, Figma, Git, PostgreSQL, Tmux, Latex, and Neovim
Spanish Fluency: Native fluency in reading, writing, and speaking Spanish