Ramon Saturnino

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EDUCATION

University of North Carolina at Greensboro — Greensboro, NC
Bachelor of Science, Computer Science — **Expected:** May 2026 — **GPA:** 3.8/4.0

- **Relevant Coursework:** Assembly and Computer Architecture, Advanced Data Structures and Algorithms, Natural Language Processing, System Programming, Linear Algebra, Statistics and Calculus
- **Activities:** Competitive Programming, Robotics Club, InfoSec Club, ColorStack, SHPE. Hackathons: HackNC at UNC Chapel Hill, HackDuke at Duke University

PROFESSIONAL EXPERIENCE

Oracle — Redwood City, CA
Incoming Software Engineer Intern — May 2025 - Aug 2025

Aisin North Carolina — Durham, NC
Automation/Controls Engineer — Oct 2022 - Mar 2025

- Implemented **Python** scripts to automate 40% of tasks in a new **Manufacturing Execution System (MES)**, significantly enhancing operational efficiency. This included developing scripts for task scheduling, data processing, and system monitoring, resulting in streamlined workflows and improved productivity within the organization.
- Configured and managed **IoT** systems, including cameras, to enable real-time monitoring and data collection. This involved setting up and optimizing camera configurations, data transmission protocols, and data processing pipelines. As a result, there was a 75% increase in data accuracy, providing more reliable insights for decision-making processes within the organization.

Metalsa — Monterrey, NL
Co-Op (High-School)- Electrical and Automation Engineer Intern — Aug 2019 - May 2020

- Designed hardware components using **AutoCAD** for integration into production lines, ensuring seamless automation processes and efficient operations.
- Collaborated with a team of engineers on programming **robotic arms**, applying engineering principles to optimize production processes and enhance system efficiency.
- Received a return job offer from the company upon completing high school in 2020.

PROJECTS AND HONORS/AWARDS

SaturnAI — Jan 2025 - Present
Project- Software Engineer

- Developing an image recognition application for predictive engineering within manufacturing environments, leveraging machine learning algorithms (TensorFlow, Python) and computer vision (OpenCV) to detect product defects in real time.

DataBridge — Dec 2023 - Feb 2024
Project- Software Engineer

- Developed a **Python** application, deployed on a **Raspberry Pi**, to pull data from Mitsubishi PLCs (located in manufacturing lines) and store it in an **SQL** database, ensuring data integrity and availability for other projects.
- Optimized processing time by implementing **multithreading**, resulting in a 6-second reduction compared to the previous multiprocessing implementation.
- Managed database connections and implemented error handling to generate alerts in case of internet connectivity issues, reducing downtime by 60% and ensuring continuous data flow.
- Built **failover servers** to ensure reliabilty of data.
- Tools used: Python, Linux, MS Sql, MariaDB, Flask.

Honors/Awards — Apr 2024 - Summer 2024
Fellow Student

- Google: Selected as one of 50 students out of 1,530+ applicants for Google's Latinx Student Leadership Summit (LSLS), a summit dedicated to tech leadership and skill building.
- IBM: Accepted in the Accelerate Program - Software Developer Track, where I'll have the opportunity to grow developer skills from IBM's software developers, Technical Leaders, and Master Inventors.
- Qualcomm Student Accelerator: Embedded engineering event. Selected as one of 40 students.
- Capital One: First Gen Focus program.

SKILLS / CERTIFICATIONS

- **Programming Languages:** Python, Java, C, C++, R, JavaScript, HTML, CSS, SQL, MySql, MS Sql.
- **Languages:** English (native), Spanish (native), and Chinese (basic level).
- **Other:** · CCNA: Switching, routing and wireless essentials. · MTA: Security Fundamentals 2021. · MTA: Networking Fundamentals 2020. · IC3 Digital Literacy Certification. · JSE − Certified JavaScript Entry-Level Programmer. (Cisco). Ignition Core Certification.