

# Derick J. Burbano-Ramon

3686 Bridgewalk Dr, GA 30044 | 678-650-4804 | derickjoab@gmail.com | American Citizen

## Objective

Computer Science and Computer Engineering student seeking a software or data-focused internship. Skilled in Excel, Python, Java, C#, JavaScript, HTML, and Tailwind CSS, with experience in web development and machine learning. Passionate about building real-world solutions through teamwork, problem-solving, and innovation.

## Education

### Kennesaw State University | Kennesaw, GA

Bachelor of Science in Computer Science and Computer Engineering, GPA 3.93  
President's List, Dean's List, Honors Program

August 2023 – Present

Expected Graduation, May 2027

### Gwinnett Technical College | Lawrenceville, GA

Cybersecurity Certificate, GPA 4.0

May 2022 – May 2023

## Skills

**Programming:** Python, Java, C#, JavaScript, HTML, CSS, Tailwind CSS

**Tools & Platforms:** Git, GitHub, VS Code, Windows

**Web Development:** HTML5, CSS3, Tailwind CSS, JavaScript (DOM)

**Hardware & Circuits:** Logic Gates, Breadboarding, Microcontrollers (Arduino), Sensors, Basic Circuit Design, Multimeter Use

**Languages:** Spanish (fluent), English (fluent)

## Experience

### U-Haul | Lawrenceville, GA

January 2024 – Present

#### Customer Service Representative / Technician Assistant

- Deliver high-quality customer service by assisting clients with rentals, reservations, and equipment troubleshooting.
- Maintain and inspect rental equipment, applying hands-on technical skills and mechanical awareness in a fast-paced environment.

### URS Compliance | Lawrenceville, GA

August 2022 – May 2023

#### Data Management Intern

- Streamlined internal operations by helping develop a program that automated repetitive compliance tasks, reducing manual workload.
- Designed a user-friendly client intake form that enhanced the onboarding process and improved data accuracy.

## Projects

### Missing Children Search Engine | Hackathon | Team Project | Developer, Data Analyst

April 2025

- Engineered search logic to correlate location, age, and demographics, improving discovery accuracy.
- Helped secure 2nd place by integrating pattern analysis and visual insights into a user-friendly interface.

### Emotion Detection System ("C-Day Project") | Team Project

April 2025

- Trained a transformer-based model on GoEmotions and Reddit data to classify emotional tone in text.
- Created a web dashboard to display emotion scores and trends using dynamic graphs.

### Employee Hours Tracking Web App | Personal Project

December 2024

- Built JavaScript front end with C# backend, exporting data to Excel using ClosedXML.
- Reduced manual work and improved operational efficiency for time tracking.

### Net Gun Turret | Team Robotics Project

January 2025

- Integrated OpenCV for color tracking; turret rotates 180° and fires a net using servos.
- Combined mechanical and software systems for autonomous targeting and firing logic.

### Light-Sensitive Alarm System | Personal Circuit Design Project

November 2023

- Tuned circuit sensitivity for stable detection across varied lighting conditions.

### Arduino Collision Detection System | Personal Embedded Systems Project

October 2023

- Used ultrasonic sensors and programmed audio feedback to simulate real-world collision warnings.

## Relevant Coursework

**Data Structures:** Abstract data types, linked lists, stacks, queues, trees, hashing, recursion, and algorithm complexity

**Computer Organization and Architecture:** CPU structure, memory hierarchy, pipelining, assembly language, and digital logic fundamentals

**Programming and Problem Solving I & II:** Object-oriented programming in Java, algorithm design, debugging, and software development practices

**Calculus I & II:** Limits, derivatives, integrals, series, and multivariable calculus

**Physics I & II:** Kinematics, Newton's laws, electromagnetism, circuits, and wave behavior

**Probability and Data Statistics:** Combinatorics, random variables, distributions, hypothesis testing, and statistical analysis

## Leadership or Activities

### Hackathon | Participant, 2nd Place Winner

April 2025

- Collaborated with a team to develop a missing children search engine using public datasets and machine learning

### C-Day Research Showcase | Independent Presenter

April 2025

- Designed and presented an NLP-powered emotion detection system with an interactive website for real-time visualizations
- Demonstrated the tool's potential impact on digital communication and mental health awareness