

RYAN ELIZONDO-FALLAS

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EDUCATION

Rutgers University-New Brunswick

B.S. Electrical & Computer Engineering

New Brunswick, NJ

September 2021 – May 2024

- **GPA:** 3.233
- **Relevant Courses:** Introduction to Computer Science, Data Structures, Computer Architecture, Software Methodology, Principles of Information & Data Management, Discrete Structures I

Bergen Community College

A.S. Engineering Sciences

Paramus, NJ

September 2020 – September 2021

- **GPA:** 3.19
- **Relevant Courses:** Fundamentals of Programming, Advanced Programming Concepts, Linear Algebra

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, HTML, CSS, SQL, Python, C++, Swift, RISC V

Tools & Technologies: Visual Studio Code, Android Studio, IntelliJ, MySQL Workbench, Postman, Netlify, Github, Sanity, Ubuntu, Tomcat, React, EasyEDA, Solidworks

PROFESSIONAL EXPERIENCE

Rutgers Residence Life

Resident Assistant

New Brunswick, NJ

August 2023 – May 2024

- Proficiently support the Residence Life department in student development, administrative duties, and conflict resolution.
- Exemplify a campus role model, showcasing active listening skills, adept provision of resources to residents' requirements, and consistent demonstration of ethical conduct.

Bergen New Bridge Medical Center Information Services Department

Intern

Paramus, NJ

May 2023 – August 2023

- Conducted hardware diagnostics and executed repairs, significantly reducing equipment downtime and minimizing disruptions.
- Collaborated cross-departmentally to assess technology needs and proposed solutions to optimize workflow efficiency.
- Demonstrated trustworthiness and initiative by independently completing tasks and leading an intern initiative focused on conducting a comprehensive inventory of the hospital facility.
- Developed customized phishing email templates using HTML to launch a phishing campaign. Reduced failure rate by 10%.

PROJECTS & OUTSIDE EXPERIENCE

Autonomous Parking Lot Navigation for Self-Driving Model Car

Senior Capstone | Hardware Team Member

New Brunswick, NJ

January 2024 – April 2024

- Led a team through the design and manufacturing of the model car, overseeing multiple modifications to optimize the vehicle's performance.
- Utilized Hybrid A* algorithm for motion planning, and successfully simulated autonomous perpendicular and parallel parking capabilities. Average duration of simulation: 5 seconds.
- Awarded 13th place out of 54 teams at the 2024 Rutgers' ECE Capstone Expo.

SquishConvert Mobile App

Personal Project

Westwood, NJ

May 2023 – June 2024

- Developed a dynamic currency converter application using Android Studio, and integrated ExchangeRate API to deliver real-time and precise conversion rates between 160 different currencies.
- Designed an intuitive GUI using the storyboard feature, enabling user-friendly input and providing instant, clear-cut results.

Espresso Cafe

Course Project | API Implementation Team

New Brunswick, NJ

January 2023 – May 2023

- Implemented Stripe API into Espresso for efficient payment processing during customer orders.
- Collaborated closely with the Frontend team to seamlessly integrate API and frontend interface communication and host the web application on Netlify.
- Worked with the MongoDB team to store payment credentials, and streamline the checkout process for future orders, reducing average checkout duration by 10 seconds.

ACTIVITIES & LEADERSHIP

Costarricenses En Alianza (CREA)

Co-Founder & Co-President

New Brunswick, NJ

September 2023 – May 2024

- Successfully hosted 4 events with an average attendance of 20 people and co-sponsored 3 events with an average attendance of 30, elected a new Eboard, and met all requirements to achieve full recognition as an organization at Rutgers.

RU Solar Car

Club Member

New Brunswick, NJ

October 2022 – December 2023

- Skilled in developing and interpreting PCB designs to fabricate circuit boards customized to meet the unique demands of vehicle dashboards.
- Capable of conducting thorough evaluations of circuit designs to guarantee the reliability and safety of implemented circuits.