

# Daniel Caleb Colón Rivera

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## Education

**B.S. Software Engineering** (3.42 GPA)

**University of Puerto Rico at Mayagüez**

**August 2022 – Present** (Expected graduation date: May 2027)

- Taking Linear Algebra (SAGE), Software Design (Angular) and Computer Architecture 1; taken Intro to Software Engineering (React), Algorithms Analysis and Design (Python), Data Structures (Java).

**University Gardens High School** (4.00 GPA)

**2019 – 2022**

- Treasurer for the Programming Club and vice president for the Math Competitions Club.

## Work Experience

**R&D Software Development Intern**

**CEGsoft**

**June 2024 – July 2024**

- Built an internal Zendesk tool for managing user accounts in Expert Tax, saving 2 hours a day for the customer support team.
- Developed a web app using React and CSS, and implemented part of a REST API in C# and ASP.NET to interact with the Expert Tax backend for account settings management. Integrated the tool into Zendesk for daily use.
- Utilized LINQ in .NET to query a Microsoft SQL Server database, implemented Dependency Injection, and received training in Agile, Git, HTTP, React, ASP.NET, and Microsoft Azure.
- Collaborated with a team of 5 interns using Agile Scrum methodology in a close-knit, collaborative environment.

## Projects

**Intro to Software Engineering**

**January 2024 – August 2024**

- Contributed to a personal finance manager web app that tracks spending and income in a 26-student team.
- Implemented account logic, third party authentication with Google and Facebook, data encryption and decryption, and improved the documentation
- Used React with Next.js for the web app and Firebase for the database and account management.

**Solar Panel Robot Research Project**

**January 2023 – May 2023**

- Programmed a robot that takes pictures of faults in solar panels with a team of 4 developer and worked with other engineers as a research project.
- Planned and wrote the motor control script in Python and assisted with the Raspberry Pi setup.

**Ultrasound Message Transmitter**

**August 2021 – May 2022**

- Wrote two programs that encode and decode information through ultrasound at up to 2 bits per second.
- Used Python with NumPy and SciPy, and implemented the Goertzel algorithm to analyze a sound signal's DFT.

## Extracurriculars

**International Collegiate Programming Contest**

**August 2024 – Present / August 2023– December 2023**

- Placed 2<sup>nd</sup> in Puerto Rico and 36<sup>th</sup> / 116 in the Caribbean in 2023. Placed 1<sup>st</sup> / 8 in Puerto Rico and 3<sup>rd</sup> / 23 in the Caribbean in 2024. Will participate in the 2025 ICPC Latin America Championship.
- Using C++ to solve complex algorithmic and mathematical problems in a team of 3 students through a pair programming dynamic.

## Skills

Languages: **C++**, **Python**, JavaScript, C#, Java, CSS

Technologies: **React**, ASP.NET, Firebase, Angular, Unity, SQL

Other: Git, Visual Studio, Azure DevOps

Soft: **Problem Solving**, **Pair Programming**, **Curiosity**, Teamwork, Creativity