

ROBERTO AGUERO

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EDUCATION

John Brown University

Anticipated Graduation: 2025

Bachelor of Science in Computer Science, Minor in Mathematics

Cumulative GPA: 3.9/4.0

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networking, Computer Architecture, Calculus I, Calculus II, Discrete Mathematics, Linear Algebra. Differential Equations, Probability & Statistics

EXPERIENCE

Incoming Software Engineer Intern

June 2023 – Present

Swytek Software

Panama City, Panama

Software Engineer Intern

June 2022 – August 2022

BICSA

Panama City, Panama

- Collaborated in the successful update of three websites and facilitated the seamless migration of servers to Microsoft Azure, leveraging the latest Linux versions.
- Oversaw the management of databases, employing SQL techniques, and gaining in-depth understanding of each website's internal architecture.
- Enhanced the implementation of two cutting-edge packages for the highly popular e-banking mobile app, making significant contributions to test guides and playing an integral role in the enhancement of product pages.

Teaching Assistant

January 2022 – August 2022

John Brown University

Siloam Springs, AR

- Assisted in delivering comprehensive Python programming lessons for an introductory CS course, focusing on fundamental coding principles, syntax, and best practices.
- Conducted code reviews, offering constructive feedback on code organization, readability, and adherence to Python coding conventions.

PROJECTS

Community Service App | Python, Swift, Flask, Firebase, Deta

April 2023

- Leveraged the Google Maps API to create a Swift application that allows users to gain points and socialize by attending community events that help the environment.
- Developed and implemented Flask endpoints for the application, utilizing Flask's framework to track scores, user activity, and other data, seamlessly storing and retrieving this information to and from a database.

Pantry Manager App | Python, Swift, JavaScript, Deta, HTML/CSS

November 2022

- Implemented the Vision framework into a Swift app in order to scan the barcode of food items going into a pantry to create an inventory system that tracks expiration dates.
- Developed a robust companion web application utilizing FastAPI, enabling users to seamlessly upload non-barcode food items and leverage the Spoonacular API to search for recipes based on their current ingredient inventory.

LEADERSHIP / EXTRACURRICULAR

Software Engineering Fellow

May 2023

Jane Street Capital - IN FOCUS

New York, NY

- Successfully completed an intensive OCaml bootcamp, building a game of snake while learning the fundamentals of functional programming.
- Participated in an electronic trading challenge where a trading bot that properly analyzed the market was developed using algorithmic trading strategies.

President/Tech Lead

August 2022 – Present

Google Developer Student Clubs

Siloam Springs, AR

- Led and managed a community of approximately 30 club members dedicated to promoting technical skills, fostering innovation, and cultivating a passion for technology.
- Implemented strategies resulting in a significant membership growth of over 20% within a single academic year, fostering a diverse and inclusive community through collaboration with other student organizations and clubs.

SKILLS

Languages: Java, C#, Python, PHP, JavaScript, SQL, C++

Frameworks & Technologies: .NET, Flask, FastAPI, JavaFX, Java Swing

Developer Tools: HTML/CSS, Git, GitHub, Google Firebase, MongoDB, Deta, WordPress