

# Caleb Moran

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## EDUCATION

**Brown University, Sc.B. Applied Mathematics—Computer Science**, 3.9/4.0 GPA **Expected Graduation: May 2025**

Relevant Courses: Linear Algebra, Applied Ordinary & Partial Differential Equations, Statistical Inference I, Algorithms & Data Structures, Intro to Software Engineering, Fundamentals of Computer Systems

Awards: Brown Consulting Club's Case @ Brown Competition Finalist

**H-B Woodlawn Secondary Program**, 4.4/4.0 GPA, National Merit Finalist

Arlington, VA | Class of 2021

## SOFTWARE PROGRAMMING EXPERIENCE

**BTS Asset Management**, *Software Engineering Intern* Lincoln, MA | June 2023 – September 2023

- Saved the firm over 100 hours each quarter by optimizing employee workflow through Python scripts. Automated the generation of dozens of necessary charts, graphs, and Excel files for company marketing and internal research
- Engineered a web application to display and evaluate technical analysis investment models with a Python & Django back end and JavaScript & React.js front end, including developing a REST API
- Calculated statistical indicators to predict future trends using tools such as Pandas, NumPy, and Matplotlib
- Spearheaded both projects for the financial firm and coordinated with non-technical employees in weekly meetings to ensure their goals are achieved

**NOVA Web Development**, *Software Engineering Intern* Arlington, VA | March 2020 – September 2020

- Coded, tested, and published a Python graphics program (GASP) for educators to use in their CS courses. GASP receives approximately 90 downloads each month on PyPI
- Implemented OOP principles and test-driven development, maintained a thorough unit testing suite, and collaborated with co-workers to manage Git workflow, all as the lead developer
- Introduced material to local teachers and provided documentation and suggested curriculum

## SOFTWARE DESIGN EXPERIENCE

**Develop For Good**, *Software Design Intern* Remote | May 2023 – August 2023

- Updated and improved website design for a non-profit client as part of a team of eight designers, and refreshed social media presence and branding
- Created wireframes, templates, mock-ups, reusable elements, and high-fidelity prototypes in Figma with a responsive web design that makes common user journeys 40% faster
- Conducted user research and testing with a focus on accessibility to iteratively refine and enhance the site

## TEACHING EXPERIENCE

**Brown University CS Department**, *Teaching Assistant* Providence, RI | August 2022 – December 2022

- Wrote and revised content for course (CSCI 0170) to fulfill standards, meeting twice a week with colleagues and professors
- Led weekly CS labs for 30 students, introducing new content and strengthening student understanding. Graded labs, homework, and projects with prompt, detailed feedback
- Assisted students one-on-one at office hours and through an online forum, always cultivating a space of hard work, creativity, and honesty

## LEADERSHIP EXPERIENCE

**Brown Men's Ultimate Team**, *Captain* Providence, RI | July 2023 – Present

- Lead a nationally competitive team of 26 players, meeting frequently with coaches, co-captains, and school officials to plan six practices each week
- Provide players with individualized feedback and nurture an inclusive, growth-oriented environment
- Manage the team's \$70,000 budget, including fundraising with local businesses and team alumni

## SKILLS & INTERESTS

### Technical Skills:

- Proficient in Python, Java, JavaScript, TypeScript, React, C, C++, Assembly, HTML, CSS, ReasonML
- Expert knowledge of Git/GitHub, Microsoft Office, and Google Apps
- Experience using Figma, Docker, and the command line
- Comfortable with Windows and Mac operating systems

**Languages:** English (native fluency), Spanish (intermediate proficiency)