

# Caleb Moran

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## EDUCATION

**Brown University, Sc.B. Applied Math—Computer Science**, 3.83 GPA Providence, RI | **Expected Graduation May 2025**

Relevant Courses: Honors Calculus III, Algorithms & Data Structures, Linear Algebra, Intro to Software Engineering, Applied

Ordinary Differential Equations, Fundamentals of Computer Systems, Statistical Inference I

**High School: H-B Woodlawn**, 4.4 GPA

Arlington, VA | Class of 2021

**NOVA Community College Dual Enroll**, 5.0 GPA

## SOFTWARE ENGINEERING EXPERIENCE

**Software Engineering Intern, BTS Asset Management**

**Software Design Intern, Develop for Good**

**Computer Science Teaching Assistant, Brown University.**

Providence, RI | August – December 2022

- Teaching Assistant for Computer Science: An Integrated Introduction (CSCI 0170)
- Wrote and revised course content to meet new standards
- Led weekly CS labs for 25 students, graded assignments and projects
- Assisted students one-on-one during office hours and through questions submitted online

**Software Developer Intern, NOVA Web Development**

Arlington, VA | March – September 2020

- Joined the software development team and quickly developed skills in Django
- Coded, tested, and published a graphics program (GASP) for educators to use in their CS courses
- Participated in weekly meetings, frequently serving as a bug tester and QA

## LEADERSHIP EXPERIENCE

**Capital Ultimate Camps, Camp Counselor**

Arlington, VA | June – August 2022

- Instructed a team of 10-12 campers, led them through drills, skill- and team-building activities, and coached during games
- Working with the camp director, improved the activities the camp offered by offering more specialized camper development
- Ensured every camper felt included and appreciated, and frequently communicated with parents

**Ultimate Frisbee, Captain**

Arlington, VA | 2019 – 2021

- Coached, guided, and led a team of 30+ players. Recruited new players and instructed them how to play. Taught fundamentals, rules of the sport, and sportsmanship

## PROJECTS

**On Deck, CSCI0320: Intro to Software Engineering**

Brown University | Fall 2022

- Written in Java on the backend, and TypeScript/React on the frontend, the web app receives user input for their favorite sports team and pulling from an ESPN API, produces a calendar view of all relevant games with the most interesting games highlighted.
- Utilized mocks, unit and integration testing, and Git, and programmed in a team of 4. See <https://on-deck-375716.web.app>

**Search Engine, CSCI0200: Algorithms & Data Structures**

Brown University | Spring 2022

- Written in Python, my search engine handled XML files, implemented Google's PageRank algorithm, and processed user input. Followed OOP principles and test-driven development. *Code available upon request*

**Decision Tree, CSCI0200: Algorithms & Data Structures**

Brown University | Spring 2022

- Written in Java, parsed CSV files of data attributes and predicted data values using a trained decision tree model. Used OOP principles and extensive unit & system testing. *Code available upon request*

**Connect 4 AI, CSCI0170: Computer Science: An Integrated Introduction**

Brown University | Fall 2021

- Written in ReasonML, algorithmically wins at any two-player, sequential, deterministic, zero-sum game of perfect information, utilizing a minimax algorithm. Allows for a human player to play against the computer via the command line. *Code available upon request*

**GASP, NOVA Web Development**

Arlington, VA | Summer 2020

- Written in Python, wrapped the Tkinter module to make it more accessible to programming novices. As the project lead, programmed the majority of the codebase, updated the corresponding documentation, and managed the online presence. GASP is utilized by teachers in Arlington County. See [codeberg.org/GASP/GASP\\_Code](https://codeberg.org/GASP/GASP_Code)

## SKILLS, AWARDS, & INTERESTS

**Technical Skills:** Proficient in Python, Java, ReasonML, JavaScript/TypeScript, React, C, and C++. Strong with Git/GitHub, Microsoft Office, Google Apps, and HTML/CSS. Experience using the command line

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**Language:** Native fluency in English, Intermediate proficiency in Spanish

**Awards:** National Merit Scholar, Finalist for Brown Consulting Club's Case@Brown competition

**Interests:** Hiking, yoga, sci-fi novels, film reviews, and Ultimate frisbee (nationally competitive)