

# DANIEL SEDAROUS

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## EDUCATION

### BROWN UNIVERSITY, Providence, RI

*B.S. Candidate in Computer Science and Applied Math // 3.83 GPA // Expected Graduation: May 2026*

- Courses: Object-Oriented Programming, Data Structures and Algorithms, Software Engineering, Computer Systems
- Fintech@Brown – Tech Developer
- Orthodox Christian Fellowship – Treasurer and E-Board member
- Affinity Groups: National Society of Black Engineers, African Student Association, Brown Arab Society

## WORK EXPERIENCE

### BROWN UNIVERSITY DEPARTMENT OF COMPUTER SCIENCE, Providence, RI

*Undergraduate Teaching Assistant for CSCI 0320 – Software Engineering // December 2023 – Present 2022*

- Revamped multiple projects by writing new support/stencil code, revising handouts, and editing lab slides.
- Graded and gave feedback on projects, labs, and other assignments for over **115+** students.
- Conducted TA hours to guide course comprehension and help solve issues in code with students one-on-one.

### BROWN ENTREPRENEURSHIP PROGRAM, Providence, RI

*Tech Developer // September 2023 – Present*

- Contributed to the development of Bruno Ventures, a platform linking Brown students with alumni for internships.
- Collaborated with teams to develop and maintain web applications for the Entrepreneurship Program.
- Supported integrating new technologies and tools to enhance the program's technological capabilities.
- Participated in regular meetings to discuss project progress and brainstorm innovative solutions.

### BROWN UNIVERSITY'S TUTORING CENTER, Providence, RI

*Math Tutor // September 2023 – Present*

- Provided tailored tutoring in Calculus 2 and Calculus 3, fostering improved understanding and higher grades.
- Designed personalized study plans, leveraging teaching aids to accommodate diverse learning styles.
- Assisted with homework assignments, exam preparation, and test-taking strategies, ensuring student success.

### HENRY FORD HEALTH SYSTEM, Detroit, MI

*Summer Intern, Clinical Service Representative // July 2023 – August 2023*

- Verified insurance coverage to facilitate proper billing and reimbursement.
- Maintained and managed medical records using large databases and spreadsheets.
- Demonstrated strong problem-solving skills in handling administrative challenges.

## PROJECTS

- **Brown Bites** – Co-developed a full-stack app utilizing *Java*, *TypeScript*, and *React.js* to generate weekly meal plans.
  - Accommodated dietary preferences to deliver tailored meal suggestion based on **500+** Brown dining hall items.
  - Integrated a user-friendly interface, incorporating a forum selection that fosters engagement and user interaction.
- **Maps** – Built a full-stack webpage utilizing *Java*, *TypeScript*, *HTML/CSS*, *React.js*, *Geocoding*, and *Node.js*.
  - Utilizes data from the US Census API, specifically, bandwidth connectivity and redlining.
  - Aims to find correlation between poor internet access and redlined districts.
- **Search Algorithm** – Recreated a portion of Google's PageRank search algorithm using *Python*.
  - Utilizes expression matching and matrix multiplication to return XML wiki results which represent a user's query.
  - Calculated term frequency for **400,000** terms in hyperlinked-based wiki documents stored in XML files.
- **Decision Tree** – Built a machine-learning decision tree using *Java* to predict a target attribute in a CSV file.
  - Utilizes recursion to leverage machine learning and employs mutable and immutable lists.

## PERSONAL

### • Technical Skills:

- High proficiency in Java, Python, C, and Agile practices.
- High Proficiency in the operation of Git/GitHub, SQL, Web Development, and Web APIs.
- High proficiency in frontend programming- MongoDB, React, JavaScript, TypeScript, HTML/CSS.
- **Languages:** Native Fluency in English, Fluent in Arabic, Proficient in French.
- **Interests:** Basketball, football, world travel, cars, technology, entrepreneurship, and investing.