

DANIEL SEDAROUS

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EDUCATION

BROWN UNIVERSITY, Providence, RI

B.S. Candidate in Computer Science and Applied Math // 3.8 GPA // Expected Graduation: May 2026

- Courses: Object-Oriented Programming, Data Structures and Algorithms, Software Engineering, Computer Systems
- Brown Entrepreneurship Program – Tech Developer
- 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

SIEMENS DIGITAL INDUSTRIES SOFTWARE, Troy, MI

Software Development Intern

May 2024 – September 2024

- Integrated an **AI assistant** into Siemens' Teamcenter, streamlining user tasks and daily operations.
- Developed a new UI component within the company framework to centralize all **AI features** in Teamcenter.
- Presented my work on the component and AI, placing **3rd** out of **200+ interns** at Siemens' Intern Impact Awards.
- Repaired broken automation tests and facilitated the conversion of **20+** tests from Cucumber Java to Cucumber JS.

BROWN UNIVERSITY DEPARTMENT OF COMPUTER SCIENCE, Providence, RI

Teaching Assistant for Software Engineering and Inclusive Cybersecurity

December 2023 – Present

- 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 **120+** students.
- Conducted TA hours to guide course comprehension and help solve issues in code with students one-on-one.

WAKE FOREST UNIVERSITY SCHOOL OF MEDICINE, Winston-Salem, NC

Second author on poster presentation: Quantifying Cleft Patient Outcome

July 2024 – Present

- Developed **30+** data visualizations for Wake Forest Med School using Python, Pandas, Vega-Altair, and Seaborn.
- Analyzed a spread sheet of **400+** patients' data to create visuals enabling patients to compare their scores with others.

BROWN UNIVERSITY'S TUTORING CENTER, Providence, RI

Math Tutor

September 2023 – September 2024

- Provided tutoring to **2** groups of **10** students in 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.

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.
- **Low Broadband and Redlining Correlator** –utilizes *Java, React.js, TypeScript, 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.
- **Google Page Rank 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.

SKILLS

- **Technical Languages:** Java, Python, C, C++, JavaScript, TypeScript, R, and HTML/CSS.
- **Technologies:** Git/GitHub, SQL, Pandas, MongoDB, React.js, Node.js, Figma, SWF, Jenkins, Excel, and Web APIs.
- **Verbal Languages:** Fluent in Arabic, Proficient in French.
- **Soft Skills:** Communication, Collaboration, Time Management, Agile Learner.

PERSONAL

- **Interests:** Basketball, football, world travel, cars, technology, entrepreneurship, and investing.