

N'famara Dabo

69 Brown St, Box 7077 | Providence, RI 02912 | Phone: (925) 212-1264 | E-Mail: nfamara_dabo@brown.edu

EDUCATION

Brown University

Providence, RI | Expected Graduation May 2027

- B.A. Computer Science and Economics , 3.6/4.0 GPA
- Relevant Courses: Object Oriented Design and Programming, Data Structures and Algorithms, Apply Statistic in Python, Introduction to Software Engineering.

High Napa Christian, 3.87/4.00 GPA

Napa valley, California | Class of 2023

- Varsity Basketball (Grind Sessions Academic Award, All-Academic Team, Grind Session Champion)
- Received a Certificate of special congressional recognition by Mike Thompson.
- Guinean National Team (Captain, U16 semi- finalist, U18 semi finalist)

PROJECTS

Decision Tree, *java*

Providence, RI | January - may 2024

- Designed a simplified ID3 machine learning algorithm to analyze large datasets and generate a decision tree.
- Conducted over 20 hours of in-depth analysis and debugging on the tree structure and node, edge, and leaf classes.
- Enhanced understanding of machine learning, practical data analysis, and the societal impact of algorithms.

API Proxy Development, *(Java)*

Providence, RI | September 2024

- Developed an API proxy that interfaces with the United States Census API, enabling real-time data retrieval and processing for user queries.
- Designed and implemented a caching mechanism using dependency injection to optimize data retrieval, reducing external API calls by evicting least-recently-used entries.
- Collaborated in a team to conduct thorough testing with both real and mock data, ensuring robustness and reliability of the API responses.
- Employed defensive programming practices and error handling to improve code quality and provide informative feedback for API users.

Minimalist Note-Taking Web App, *(React, TypeScript, Firebase)*

Providence, RI | September 2024

- Built a note-taking app with a calendar and to-do list in a two-week team sprint, focusing on organization and user productivity.
- Designed features for note creation, sorting, and filtering, leveraging React state management for efficient rendering.
- Integrated Firebase for real-time updates and secure user authentication, ensuring reliability and scalability.
- Employed Git for version control, ensuring smooth collaboration and integration of individual contributions.
- Collaborated with three teammates and conducted testing to deliver a functional, responsive app within the timeline.
- Conducted rigorous testing with mock data and user scenarios to ensure functionality and responsiveness across devices.

Message Board System, *(Python)*

Providence, RI | January - May 2024

Developed a Python-based message board system with reliable data storage and secure file management

- Implemented functionality for user connections, message posting, deletion, and summary generation, ensuring a seamless user experience.
- Designed the system to retain messages after user disconnection or program termination, adhering to best practices in data persistence and file management.

CAMPUS INVOLVEMENT & LEADERSHIP

NCAA Division 1 Basketball, *(Forward)*

Providence, RI | September 2023 – Present

- Play as a Forward on Brown University's Men's Basketball Team, competing at the highest level versus elite teams in the U.S.
- Committed over 30 hours weekly to physically and mentally demanding activities (practices, games, strength training, film)

Student-Athlete Impact Tour

Providence, RI | June 2024

Selected to participate in a first of its kind opportunity to travel to Spain and Portugal with 21 student-athletes from 17 different teams to focus on leadership, team building, growth mindset, high performance and professional development.

Mosaic + program, *(General body member)*

Providence, RI | August 2023 - Present

- Facilitated computer science learning opportunities for newly admitted minority students
- Assisted peers with no prior computer science experience in navigating the subject matter

SKILLS & INTERESTS

Technical Skills: Proficient in Java & Python, React, Git, Linux Fundamental(HackTheBox), Fundamental of Networking (HackTheBox), IPSec, VLANs, NAT, and DHCP

Language: Fluent in French and Bilingual proficiency in English.

Interests: Soccer, basketball, Cooking, biking, Traveling