

Brian Mbaji

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Education

University of Florida

Gainesville, FL

Bachelor of Arts and Sciences in Computer Science

May 2026

- **Relevant Coursework:** Programming Fundamentals I & II, Data Structures and Algorithms, Operating Systems, Intro to Software Engineering, Discrete Math, Engineering Statistics
- **Honors & Certifications:** UWC Davis Scholarship (\$35,000), MongoDB Node.js Developer Path
- **Clubs & Affiliations:** ColorStack (Treasurer), National Society of Black Engineers (NSBE), UF Computing Student Union, African Student Union, CodePath Fellow, HeadStarter Fellow

Technical Skills

Languages: Python, C++, React, TypeScript, JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, WordPress

Developer Tools: Git, Docker, Firebase, VS Code, Visual Studio, PyCharm, MongoDB

Libraries: pandas, NumPy, Matplotlib, spotipy

Soft Skills: Collaboration, Communication, Reading and Writing Documentation

Projects

[Harmony Hub](#) | *Python, Flask, React*

- Developed a **full-stack web application** to recommend Spotify playlists based on user preferences, leveraging **OAuth** for secure data access.
- Optimized recommendations ranking by developing an algorithm that compared the sorting efficiencies of Merge Sort and Quick Sort, resulting in a **40%** improvement in recommendation speed.
- Enhanced user engagement by **15%** through accurate playlist recommendations and real-time feedback on user preferences.

[Babblr](#) | *Firebase, React, Git*

- Designed and developed a **front-end application** using React and Firebase, enabling users to perform essential functions such as liking, commenting, and posting content.
- Enhanced user experience by solving data management challenges by integrating Firebase Realtime Database to store and retrieve user-generated content, achieving a **20%** reduction in app loading times.
- Utilized **Firebase's NoSQL** database and real-time features to support up to **200,000** concurrent users in the social media app.

[Github Getter](#) | *React, JavaScript*

- Designed and implemented a GitHub search engine using React and JavaScript, enabling efficient retrieval of user profiles, repositories, and projects via the GitHub **API**.
- Implemented advanced search algorithms to optimize data retrieval, ensuring fast and accurate results, even for complex queries.
- Conducted comprehensive code reviews and optimizations, reducing the application's runtime by **40%** and resolving **90%** of identified bugs, demonstrating a commitment to code quality and efficiency.

Leadership Experience

Gator Sudoku | *Python*

April 2022 – May 2022

- Collaborated with team members to identify and resolve **90%** of the bugs, improving overall project functionality and user experience of the Sudoku gaming application.
- Managed documentation and provided clear project updates to ensure transparency and understanding among team members.

ColorStack UF | *Treasurer*

May 2024 – Present

- Managed the organization's budget ensuring accurate financial records and allocation of funds to support events and initiatives.