

BRIAN MBAJI

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EDUCATION

University of Florida, Gainesville, FL

Bachelor of Science in Computer Science, *May 2026*

Courses: Programming Fundamentals I & II, Data Structures and Algorithms

TECHNICAL SKILLS

- Computer languages: HTML, Python, C++, JavaScript, CSS and React
- Web Design

PROJECT EXPERIENCE

Personal E-Portfolio ([Demonstration](#))

- Developed a personalized E-portfolio using HTML, CSS, JavaScript, showing technical skills in creativity in designing and implementing a visually appealing and interactive website.
- Utilized CSS to form responsive formats, successfully adjusting the E-portfolio for optimal viewing on different devices, guaranteeing consistent user experience
- Adapted JavaScript to incorporate dynamic components, such as interactive buttons, smooth transitions, and form validation.

Github Finder ([Demonstration](#))

- Created a web application using React.js that uses the Github API to retrieve and showcase user information
- Boosted user interactions by 30% through the integration of Github API endpoints via Axios, offering direct links to searched Github profiles, enhancing user experience.
- Implemented dynamic updating of user information based on real-time user input, providing instant feedback and enhancing the responsiveness of the application.

Social Media Application ([Demonstration](#))

- Designed and developed a dynamic social media application using React and Firebase, enabling users to perform essential functions such as liking, commenting and posting content.
- Solved User Authentication Challenges by implementing Firebase Authentication, which streamlined secure user registration and login features, ensuring a personalized experience for each user.
- Enhanced User Experience by solving data management challenges by integrating Firebase Realtime Database to store and retrieve user-generated content therefore achieving a 20% reduction in app loading times.

AVL Tree

- Designed and implemented a versatile AVL (Adelson-Velsky and Landis) tree data structure, showcasing proficiency in database integration, algorithmic implementation including insertion, removal and search, and optimization techniques.
- Implemented comprehensive testing strategies using Test and Catch technology to ensure robustness and reliability of AVL project, effectively identifying and resolving potential bugs and issues during development phases.

LEADERSHIP EXPERIENCE

Group Project Leader: Sudoku Project

- 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.
- Implemented version control (e.g., Git) to track code changes and coordinate collaborative coding efforts .

EXTRACURRICULAR INVOLVEMENT

National Society of Black Engineers

- Organized mentorship programs connecting aspiring Black engineers with experienced professionals, fostering a supportive community and promoting diversity and inclusion in STEM fields..

ColorStack Association

- Collaborated with Bloomberg and other organizations to explore emerging technologies like Docker and RabbitMQ, enriching members' understanding of modern tech stacks and industry practices.