

Michael J. Bayouk

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EDUCATION

University of Georgia, School of Computing

Bachelor of Science, Computer Science

Minor in Mathematics

Certificate in Applied Data Science

Athens, GA

August 2021 - May 2025

Major GPA: 3.85/4.00

Relevant Coursework: Software Engineering, Algorithms, Computer Architecture, Data Science, Data Structures

TECHNICAL SKILLS

Programming Languages: TypeScript, Java, Dart, C++/C/C#, Python, R Studio

Technologies: React.js/Next.js, React Native, Git, Android Studio, SAP UI5, Flutter, Unix, Axure RP 9, Figma

Database: Supabase, Firebase, MongoDB, PostgreSQL

EXPERIENCE

United Launch Alliance, Information Technology Internship

June 2023 - August 2023

Denver, CO

- Led SAP/UI5 project, in which I presented project outcomes to 5+ key managers within the organization
- Utilized SAP, UI5, JavaScript, and Axure to optimize workflow processes
- Incorporated a structured Git workflow, managing over 30 pull requests and facilitating 20+ code reviews
- Effectively managed multiple concurrent projects (2-4 at a time) with varying deadlines

PROJECTS

Momentum Fitness Tracking App, Personal Mobile Application

March 2025

- Created a React Native/TypeScript app integrated with Supabase, achieving 98% real-time data synchronization
- Implemented Supabase PostgreSQL functions, reducing API calls by 65% and response times by 120ms
- Built a calendar visualization system with 30+ day views with custom SQL queries, achieving O(1) lookup time
- Designed a scalable real-time architecture handling 1000+ database transactions daily with 99.9% uptime

MusiiMaker Website, Personal Web Project

February 2025

- Developed a music website that converts any audio file up to 10 minutes long into MIDI and sheet music
- Integrated machine learning models that allow each song to be customized with over 90% accuracy
- Enabled users to comment on and engage with any transcriptions, handling over 100 interactions per day
- The database can store millions of transcriptions, allowing users to access and reuse past works

PokédexApp in Flutter, Personal Mobile Application

May 2024

- Applied Object-Oriented Programming principles to reduce code redundancy by 30%
- Designed a UI/UX in Figma, enabling users to search and filter 1000+ Pokémon across all devices
- Optimizations boosted app performance by 50%, significantly enhancing responsiveness and user satisfaction

INVOLVEMENT

DevDogs & Google Developer Groups on Campus, University of Georgia

August 2024 - Present

Athens, GA

- Leader of a frontend team of 8+ members in developing a university web app, utilizing Node.js and React
- Assign tasks and responsibilities to team members, ensuring balanced workloads and timely progress
- Optimized SQL Server, boosting query speed by 30% and ensuring 99.9% uptime

Teaching Assistant & Peer Tutor, University of Georgia

August 2022 - May 2023

Athens, GA

- Tutored over 100 students of all ages in various subjects inside and outside of UGA
- Tailored to individual needs and helped students achieve a 20% average improvement in test scores