

# MICHAEL BAYOUK

STUDENT / HONORS GRADUATE  
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## INVOLVEMENT

**Small Satellite Research Lab**  
*Contributed to satellite software, gaining national and international recognition for UGA*

**Hackathons**  
*Participated in 3 university hackathons; one led to an interview opportunity*

**DevDogs Programmer**  
*Contributed to software development projects in a student-led team*

## RELEVANT SKILLS

Java *Proficient*  
Flutter *Proficient*  
Firebase *Proficient*  
C/C++/C# *Proficient*  
Git *Proficient*  
Unix *Proficient*  
JavaScript *Proficient*  
React.js/Next.js *Proficient*  
CSS/HTML *Proficient*  
Python *Proficient*  
Google Cloud Platform *Proficient*  
Unreal Engine *Intermediate*  
R Studio *Intermediate*  
Computer Hardware *Intermediate*  
MongoDB *Intermediate*  
SQL *Intermediate*  
SAP UI5 *Intermediate*  
TensorFlow *Foundational*

## EDUCATION

University of Georgia, B.S. Computer Science  
Athens, GA

August 2021 - May 2025

- Minor in Mathematics
- Certificate in Applied Data Science
- Current GPA of 3.85/4.00

### Relevant Coursework

- Data Structures: Learned fundamental data organization methods (trees, graphs, hash tables)
- Algorithms: Developed skills in algorithm design, optimization, and analysis
- Data Science: Learned foundational data science techniques using Python
- Software Engineering: Gained experience in software development lifecycles, design patterns, and collaborative coding practices through team projects.

## WORK EXPERIENCE

United Launch Alliance, Internship  
Denver, CO

June 2023 - August 2023

- Led SAP/UI5 project, in which I presented project outcomes to key members of the organization
- Proficient in SAP, UI5, JavaScript, and Axure 9 for optimized workflow processes
- Iteratively developed UI/UX designs in Axure, incorporating feedback for extensive refinements
- Effectively managed cross-functional teams while actively absorbing valuable insights
- Implemented a proper Git workflow by managing pull requests and aiding efficient code review
- Demonstrated adept use of SAP to optimize business operations through module configuration, data analysis, and workflow enhancement

## PROJECTS

### PokédexApp in Flutter

May 2024

- The project involves utilizing GSON and JSON elements to extract information from the PokéAPI in a structured and efficient manner
- Object Oriented Programming principles were applied to reduce code redundancy and improve overall program efficiency
- Integrated interactive features such as clickable Pokémon sprites for detailed views, type matchups, move effects, and evolution information to enhance user experience.
- Adequate testing and debugging procedures were implemented to detect and correct errors and anomalies in the project
- implemented optimizations which increased performance of up to 50%, enhancing user experience and responsiveness.

### Top-Down Puzzle-Based RPG

August 2024

- A sophisticated leveling and health system was implemented to drive dynamic player progression and strategic gameplay.
- Leveraged superclasses for efficient code reuse, ensuring clean, modular, and maintainable code architecture.
- Designed and integrated interactive object mechanics to create engaging and immersive puzzle-solving challenges.
- Employed advanced coding techniques to enhance modularity, scalability, and overall game architecture efficiency.
- Optimized the game for cross-platform compatibility, allowing seamless play across multiple devices.

### Guided a Team to create Service Platform Mobile App

January 2024

- Leader of a team of four individuals, in the development of an Android application using Android Studio for a University Hackathon
- The project's main concept was a way for a person to request help from local users to accomplish a specific task needed by said person
- Implemented a secure authentication screen allowing users to create accounts and log in with encrypted data storage
- Designed an intuitive user interface enabling the creation of tasks that were dynamically shared with nearby users possessing the requisite skills
- Implemented and oversaw DevOps practices to streamline development workflows

## CURRENT ENDEAVORS

LANGUAGE STUDY: Japanese-speaking/writing/reading [Intermediate Level]  
CS-BASED PROJECT: Media Recommendation WebApp [Creating TensorFlow Models]