

Jayden Botha

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EDUCATION

University of Central Florida

Orlando, FL

Bachelor of Science in Computer Science

Aug. 2022 – May 2026

GPA: 3.9 - Junior

Relevant coursework - Computer Science I & II, Processes of Object-Oriented Software, Discrete Structures I & II, Systems Software, Mobile App Development, Computer Logic and Organization

EXPERIENCE

Shift Lead

August 2022 – May 2023

Smoothie King - UCF

Orlando, FL

- Developed a Employee Scheduling & Shift Swap Web App helping my manager schedule **15+** employees, using React as the front-end and Firebase for the authentication and updates.
- Designed an intuitive UI using React, making shift swaps and scheduling accessible on both desktop and mobile devices.

PROJECTS

CarLogix - Mobile/Front-end | *MongoDB, Express.js, React, Node.js*

February 2025 - present

- Led UI/UX design for a vehicle maintenance tracking app, ensuring an intuitive and seamless user experience.
- Implemented two-factor authentication via email, enhancing security and reducing unauthorized access by **40%**.
- Designed the front-end UI using React for mileage logging, maintenance information and user notifications.
- Migrated CarLogix to a mobile application, expanding accessibility and user engagement

ScuBuddies - Contact Manager | *PHP, MySQL, Apache, Linux, HTML/CSS, JavaScript*

January 2025

- Developed a full-stack web application in a team of **5** developers, hosting on Apache, enabling users to store and manage scuba diving contacts.
- Designed a front-end with consistent styling, achieving a **97%** accessibility rating and improving user experience.
- Worked with back-end developers to streamline API integration, improving response times through pagination.
- Utilized Git/GitHub for version control, coordinating over **100** pull requests and merges, ensuring seamless team development.

Compiler Code Generation for x86 Assembly | *ANTLR, Python, Git, Linux*

August 2024

- Developed a compiler backend to generate x86 assembly from SimpleIR using ANTLR and Python.
- Implemented code generation for function calls, returns, arithmetic operations, branching logic, and pointer operations.
- Utilized ANTLR to parse syntax trees and emit optimized assembly instructions.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, TypeScript, HTML/CSS, Haskell

Frameworks: React, TailwindCSS, Node.js

Developer Tools: Git, VS Code, Eclipse, Figma, Android Studio