

Education

Clemson University

Computer Science (B.S). Member of the Honors College.

Fall 2022 – Expected Grad. Spring 2026

Work Experience

Software Engineer, Intern

Summer 2022

Expeditors International

- Led development of two major internal applications over the course of three months (JavaScript, React).
- Implemented virtualization, error monitoring, and application analytics (Proxmox, Sentry, PostHog).

Software Engineer, Consultant

Summer 2022

ISA Engineering

- Created an ETL solution to move solar energy production data into a time-series database (Python, InfluxDB).
- Created a custom report generation tool solution for carbon savings (Python, Jinja, Amazon SES).
- Utilized Grafana for overall monitoring and reporting.

Languages and Technologies

- **Languages:** JavaScript, HTML, CSS, Python, C++
- **Libraries:** React, React Native, Tailwind CSS, Pandas, Matplotlib, OpenCV, Catch2, Boost
- **Platforms:** Windows, macOS, Unix, Cloud (Google, AWS)

Selected Projects

Kaironetic: Open-source programming interface for KUKA Robotics applications.

2021

- Created a C++ library that allowed rapid creation of KUKA Robotics Language software, including abstractions for common tasks such as drawing on paper or playing a piano.

Uplink: RFID-based educational attendance tracking solution.

2022

- Utilized existing student identity cards in conjunction with an Arduino-based sensor module, Firestore database, and React-based web dashboard to create attendance reports for teachers and administrators.

Formflow: Customizable forms solution for logistics data entry.

2022

- Created a React application (deployed via Electron) to quickly process warehouse data entry tasks such as verifying inventory counts or scanning an order, with a focus on customizability through a comprehensive configuration file.

Upcharge: Point-of-sale application to track billable warehouse events.

2022

- Created a React Native application, targeting Android and iOS devices, that allowed employees to quickly create an order sheet and send it via email (Postmark API) to relevant parties.

Side Projects & Awards

- **Discord Wrapped** (2022). Analysis tool for large-scale chat history exports (JavaScript, React, Plotly).
 - Won **First Place** out of over 80 projects at HackMIT Blueprint.
- **Wingman** (2022). Dating app with a twist—your friends swipe for you (JavaScript, React, Firebase).
 - Won **Best Web App** at Hello World 2022.