

Jacob Armiger

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EDUCATION

Bachelor of Science in Computer Science, Minor in Business Administration

Graduated Dec 2023

University of Tennessee, Knoxville

Summa Cum Laude, Dean's List, GPA: 3.89/4.0

WORK EXPERIENCE

AllianceBernstein

Jun 2023 – Aug 2023

Software Developer Intern – Nashville, TN

Facilitated financial data quality control between AllianceBernstein and an Order Execution Management System.

- Created a web-based dashboard tool with **Python**, **Dash**, and **Bootstrap** that centralizes 20 trade reports for over 30 employees while providing visualizations that highlight important data.
- Reduced the number of automated emails sent to employees by modifying **Airflow** jobs to post data to a database.
- **Massaged data** in a Python backend and wrote **SQL** queries to pull data into the dashboard.
- Brought the Dashboard through the development lifecycle by deploying new versions with **Jenkins** and **Docker**.
- Met with internal customers to get feedback and adjust requirements.
- **Refactored** code to lean into existing documentation and have consistent design patterns to expedite development.

Knoxville Utilities Board

May 2022 – Oct 2022

Software Developer Intern – Knoxville, TN

Developed web-based applications for internal employees and over 200,000 external customers.

- Contributed to an **Ember** web app by adding components and improvements that lead to a better customer experience.
- Made styling changes in **CSS** to align website UI with Figma's provided by a third-party vendor.
- Implemented a new **content security policy** for KUB apps to provide greater security to all external customers.
- Masked sensitive information in a **Java middleware** layer to provide greater confidentiality to all external customers.
- Utilized tools like **Splunk** and **Postman** to troubleshoot and resolve issues in a distributed system.
- Collaborated in an agile **SCRUM** team to meet bi-weekly sprint goals.

University of North Carolina at Charlotte – William States Lee College of Engineering

Jun 2021 – Aug 2021

Research Assistant, Autonomous Robots and Systems Laboratory – Charlotte, NC

Researched steering controller system identification and automation of low-cost water surface vessels.

- Programmed an Arduino to utilize multiple sensors to read and log pulse-width-modulated (PWM) data.

U.S. Army Special Operations – 75th Ranger Regiment

Jul 2015 – Oct 2019

Forward Observer – Savannah, GA

Coordinated with aircraft to provide fire support and medical evacuation for Rangers in dynamic environments.

- Worked in a Team Leader position that required training and coaching of soldiers to fit Ranger standards.
- Gave upwards of forty classes and presentations to peers and supervisors while translating technical information.

PERSONAL PROJECTS

react-portfolio-site – <https://jacobarmiger.vercel.app>

A hub for information on my personal projects and interests. Created with **React**, **Tailwind**, and a **Supabase** database.

comic-list-web-scraper

A web application that dynamically wrangles data from pages on comicbookreadingorders.com to provide users a method to track their reading progress. Utilizes **web scraping libraries** and built with **Python** and **Flask**.

- **Adopted by site owner** and has approximately 100 monthly users.

rendering-engine

A rendering engine written in **JavaScript** and **WebGL 2.0** that dynamically renders a list of objects with multiple shaders.

PROFESSIONAL SKILLSET

Languages:

Python, JavaScript, C++, Java, CSS, HTML

Technologies:

Git, React, Bootstrap, Airflow, Jenkins, Docker, Flask