

# Jack Lockhart

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## EDUCATION

**The University of Alabama**, Tuscaloosa, AL

Bachelor of Science in Computer Science, May 2027

Bachelor of Science in Cyber Security, May 2027

GPA 4.00/4.00

- Stem path to the MBA Program
- Honors College

## PROJECTS

**StocksInSeconds.com** (Taken offline)

September 2024 – October 2024

*Web Application for Financial Consulting Startup*

- Developed full-stack website using Python (Flask) for backend REST API and integrated React for frontend components.
- Deployed on AWS leveraging API Gateway, Lambda, S3, DynamoDB (NoSQL), and ACM for domain security.
- Implemented Microsoft Azure OAuth for secure authentication and Stripe API for payment processing.
- Optimized frontend UX with dynamic form handling, cookie management, and SEO best practices.

**CourseGenius.free.nf** (In progress)

August 2025 - Present

*Grade Tracking Web Application*

- Building a React-based frontend hosted on a free domain, with Java backend deployed via AWS Lambda & CloudFront.
- Designed MySQL database architecture hosted on Oracle Cloud VM for scalable grade analytics.
- Integrated Microsoft OAuth to eliminate password storage, enhancing security.

**Stock Tracking Program**

July 2025

Python program to track stocks in Excel

- Needed a free way to track stock prices over a time frame and at specific intervals
- Developed with python to get data from free stock APIs and update an Excel file

Interacting with an excel file instead of command line to make it easy for family and friends to use

## SKILLS

Python | Java | C++ | JavaScript | TypeScript | Learning rust

AWS (Lambda, S3, CloudFront) | Oracle Cloud | Microsoft Azure | Docker | Git | CI/CD | Cursor

Virtual Machines | Vim | Arduino IDE

## RELEVANT EXPERIENCE

**Electrical Team Member / Software Engineer**

*Baja Racing, Tuscaloosa, AL | Sep 2023 – Present*

- Developed and programmed Arduino-based microcontroller systems to integrate sensors, display units, and telemetry for real-time data acquisition.
- Collaborated with cross-functional teams (electrical, mechanical) to design, prototype, and implement hardware/software solutions for vehicle performance optimization.

## CAMPUS ACTIVITIES

- Baja Racing club (2023-present)
- Crimson Defense Cyber Security Team (2023 – present)
- Club Tennis Team
- Intramural Flag Football