

# Jack Lockhart

jrlockhart04@gmail.com | (205) 569-8341 | JackLockhart04.github.io/portfolio

## 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, May 2028

GMAT Focus Edition: 715 (99th Percentile)

## CERTIFICATIONS

CompTIA Security+ (Valid through Nov 2028)

## 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.

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

October 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

**Lisp and Lox Interpreters**

Lisp (C++) and Lox (Rust) Interpreters for school

- Developed two working interpreters, gaining hands-on experience with formal languages, parsing (recursive descent), Abstract Syntax Trees (AST), and execution strategies.

## 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 an Arduino to manage the data from over \$2,000 of sensors for our car.
- 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