

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, 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