

Jack Lockhart

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EDUCATION

The University of Alabama, Tuscaloosa, AL

Bachelor of Science in Computer Science, Expected May 2027

Bachelor of Science in Cyber Security, Expected May 2027

GPA 4.00/4.00

- Stem path to the MBA Program
- Honors College

PROJECTS

StocksInSeconds.com | Oct 2024 (Taken offline)

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 | Nov 2024 – present (Incomplete)

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.

SKILLS

Python | Java | C++ | JavaScript

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

Virtual Machines | Vim | Unity | 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.
- Troubleshoot and debugged embedded systems to ensure reliable data collection and sensor communication during races.

CAMPUS ACTIVITIES

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