

Jack Lockhart

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EDUCATION

Bachelor of Science in Computer Science, May 2027

The University of Alabama, Tuscaloosa, AL, GPA 4.00/4.00

Computer Science

GPA 4.00/4.00

- Stem path to the MBA Program
- Honors College

PROJECTS

Backend Developer, stocksinseconds.com, Tuscaloosa, AL, Oct 2024

- Website for a consulting startup
- Backend developed in python Flask framework to create a REST API
- Deployed with Amazon Web Services (AWS), specifically API Gateway, Lambda, S3 bucket, NoSQL DynamoDB, and the certificate manager for the domain
- Implemented Microsoft authentication with Azure
- Implemented secure payment using Stripe api
- Developed frontend parts including buttons and inputs to send and fetch data from backend. Learned about cookies, url requests, SEO, and domains

Course Tracking Website, Nov 2024 – current

- In progress build of a website for tracking course grades, grade statistics, and future grades
- Uncompleted but setup of Docker, the APIs, and my deployment process completed
- Frontend being built in react, deployed statically to github pages as a personal website
- Backend being built in C++ deployed to AWS lambda in order to force myself to learn C++ REST APIs, Docker, and deployment pipelines
- Used CMake with Docker to build into a container image to deploy to AWS lambda

SKILLS

- Programming Languages (Advanced): Python, C++, Javascript
- Programming Languages (Basic): SQL, Java, C#, Typescript, HTML
- Technologies: Docker, Git, AWS (Lambda, API Gateway, S3 Bucket, NoSQL DynamoDB)
- Computer skills: Slack, Microsoft Office Suite (Word, powerpoint, excel), Fusion 360 (CAD), Unity, Arduino IDE
- Design offroad race buggy electrical hardware and software

RELEVANT EXPERIENCE

Electrical Team Member / Software Engineer, Baja Racing, Tuscaloosa, AL, Sep 2023 - Present

- Program micro controller (Arduino) to combine sensors, screen, and telemetry to gather data
- Communicate within electrical sub team and with other sub teams in order to design and install hardware and software in an effective way

CAMPUS ACTIVITIES

- Baja Racing club (2023-present)
- Club Tennis Team (2023-present)
- Intramural Flag Football (2023-present)
- Intramural Basketball (2024-present)

HONORS/AWARDS

- Presidential Scholarship
- University of Alabama Presidents List x2
- National Merit honorable mention