Lucas Taylor

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Education

University of Illinois Urbana-Champaign Aug. 2019 – May 2023
Bachelor of Science in Computer Science *Champaign, IL*

- **Relevant Coursework**: Operating Systems, Data Structures, Algorithms, Software Design
- **GPA**: 3.90/4.00
- **Activities**: ACM UIUC, HackIllinois Organizer, CS Mentorship Program

Experience

Software Development Intern Jun. 2022 – Aug. 2022
Google *Mountain View, CA*

- Developed a scalable logging and monitoring tool used by **5+ teams** across the company.
- Optimized backend microservices, reducing latency by **25%**.
- Built a dashboard with React and Flask to visualize real-time system metrics, enhancing debugging efficiency.
- Collaborated with senior engineers to implement security features, ensuring compliance with internal standards.

Teaching Assistant Sep. 2021 – May 2022
University of Illinois Urbana-Champaign *Champaign, IL*

- Led weekly discussion sessions for the Algorithms course, assisting **100+ students** in understanding complex topics.
- Graded assignments and exams, providing constructive feedback to improve learning outcomes.
- Hosted office hours to provide one-on-one support, improving average class performance by **15%**.

Projects

CodeCollab: Real-Time Coding Platform *React, Node.js, WebRTC*
Feb. 2023 – Apr. 2023

- Developed a collaborative coding platform allowing multiple users to code simultaneously in real time.
- Implemented WebRTC for low-latency peer-to-peer communication, ensuring seamless collaboration.
- Designed an intuitive UI with React, improving user engagement and reducing churn.
- Deployed the platform on AWS, supporting **1,000+ active users**.

SmartFarm: IoT Agriculture Monitoring System *Python, Raspberry Pi, MQTT*
Oct. 2022 – Dec. 2022

- Built an IoT-based system to monitor soil moisture and temperature, optimizing water usage in farms.
- Integrated sensors with Raspberry Pi to collect data and send real-time alerts via MQTT.
- Developed a dashboard to visualize data trends and provide actionable insights to farmers.
- Tested the system in a pilot farm, achieving **20% water savings**.

DataViz Tool for Financial Analysis *Python, Flask, Plotly*
Jan. 2023 – Mar. 2023

- Designed a web application to visualize and analyze financial datasets for small businesses.
- Integrated Plotly to create dynamic charts and graphs, enhancing data interpretation.
- Implemented Flask APIs for secure data handling, processing **10,000+ records** efficiently.
- Deployed the tool on Heroku, receiving **95% positive feedback** during beta testing.

Technical Skills

Languages: Python, JavaScript, C++, SQL

Frameworks: React, Flask, Node.js

Tools: Docker, Git, AWS, WebRTC

Technologies: IoT, Web Development, Data Visualization, Microservices