Logan Lucas

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EDUCATION

University of Illinois at Chicago   Chicago, IL
Bachelor of Science in Computer Science   *Expected May 2026*
GPA: 3.93

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C#, Go, C++, SQL, SQLite3, CSS, HTML
Frameworks/Libraries: React, Vue, Django, ASP.NET Core, Flask, Tailwind CSS, React Router, NumPy
Technologies: Git, Docker, Amazon Web Services (AWS), REST APIs, Firebase, Cloudflare Workers, Figma

PROJECTS

Final Exam Scheduler | *C#, Vue, TypeScript, AWS*   May 2025 – Present
- Developing a tool that lets users quickly add final exams to their calendars by syncing with Google Calendar, streamlining exam planning and saving valuable time
- Enabled efficient access and improved backend maintainability by extracting exam scheduling data and storing it securely in the cloud using AWS RDS
- Connected backend and frontend systems by using ASP.NET Core to serve data from the C# backend to the Vue frontend, enabling seamless and efficient client-server communication

Fitness Motivation App | *Python, React, JavaScript, Django, SQLite3*   Feb. 2025 – May 2025
- Created a goal-focused extension of the mobile Strava fitness app using React, Django, and a SQLite3 database
- Ensured real-time accuracy of user activity data by extracting location, distance, and speed statistics using Strava's V3 REST API, enabling up-to-date performance tracking
- Optimized username lookup performance by 50% by implementing the cuckoo filter probabilistic data structure, reducing search time and improving database query efficiency
- Delivered final tech demo to an audience of 80+ attendees, showcasing frontend design, efficient data structures, and a strong core concept, earning an average score above 94% for presentation quality and technical execution
- Planned application structure and flow by creating an initial design document using Figma

Local Restaurant Discovery App | *Python, React, TypeScript, Django*   Feb. 2025
- Built a React/Django full-stack app during the SparkHacks 2025 hackathon that boosts local restaurant visibility for small businesses using user preferences
- Ensured data accuracy by retrieving information from the Google Search and Google Places APIs in Python
- Enhanced restaurant discovery by adapting to previous user behavior, reducing time spent browsing by 28%

Social Media Stock Sentiment Analyzer | *Go, React, TypeScript, Firebase*   Dec. 2024 – Feb. 2025
- Implemented data retrieval from social media websites in Go to gather and analyze current stock sentiment, enabling users to make informed buy or sell decisions based on real-time data
- Integrated Firebase authentication to securely store user metadata on the cloud, allowing users to efficiently access their previous search history and bookmark their favorite stocks
- Designed a suite of reusable React components with Tailwind CSS to display data to end users, improving codebase modularity and accelerating development time of data visualization pages by 20%
- Decreased average page load times by over 200ms by implementing client-side routing with React Router, eliminating full-page reloads and improving navigation smoothness for users

EXPERIENCE

Computer Science Tutor   Aug. 2024 – May 2025
Freelance   *Remote*
- Provided personalized weekly tutoring sessions remotely to a computer science student at the University of Illinois Urbana-Champaign, boosting their academic performance by 2 letter grades
- Enhanced student understanding of core C++ concepts, including object-oriented design, common data structures, and memory management through live coding demonstrations