Logan Lucas

815-822-1113 | logs10658@gmail.com | loganlucas.dev | linkedin.com/in/loganlucas13 | github.com/loganlucas13

Education

University of Illinois at Chicago — Chicago, IL
Bachelor of Science in Computer Science — *Expected May 2026*
GPA: 3.92

Technical Skills

Languages: Python, TypeScript, JavaScript, Go, C++, SQL, SQLite3, CSS, HTML
Technologies: React, Git, Docker, Django, Flask, Tailwind CSS, NumPy, Firebase, Cloudflare Workers

Projects

Local Restaurant Discovery App | *Python, React, TypeScript, Django* — Feb. 2025 – Present

- Achieved 4th place out of 34 teams at the SparkHacks 2025 hackathon by building a React/Django full-stack app 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 – Present

- 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

Online Guitar Tuner | *Python, JavaScript, Flask* — Nov. 2024 – Dec. 2024

- Developed an accurate and lightweight guitar tuner using Python, Flask, and JavaScript to provide users with direct access from any browser, enhancing accessibility and convenience for musicians
- Analyzed input audio with NumPy to leverage Fourier transforms for frequency identification, achieving 95% accuracy
- Connected to user audio devices and integrated real-time visualization using JavaScript's Media Devices API, providing users with immediate visual feedback based on input

Public Transit Database Explorer | *Python, SQLite3* — Jan. 2024 – Feb. 2024

- Achieved efficient data retrieval from the Chicago Transit Authority database by leveraging Python and SQL queries, ensuring that users have access to current and accurate data with implemented filtering
- Optimized data retrieval by implementing the SQLite3 Python API, decreasing application runtime by more than 15%

Campus Navigation Assistant | *C++* — Nov. 2023

- Integrated Dijkstra's algorithm in a C++ pathfinding application to find optimized routes between university buildings, decreasing average travel time on campus for users
- Reduced computation runtime by more than 25% by optimizing algorithm and adjacency list implementations, resulting in increased responsiveness with a decrease in loading times

Experience

Computer Science Tutor — Aug. 2024 – Present
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