Logan Lucas

logs10658@gmail.com - github.com/loganlucas13 - linkedin.com/in/loganlucas13 - (815) 822-1113

EDUCATION

University of Illinois at Chicago · **August 2022 - Present**

Bachelor of Science in Computer Science · Expected Graduation: May 2026

- GPA: 3.90/4.00
- Relevant Coursework: Data Structures and Algorithms, Programming Language Design and Implementation, Machine Organization, Systems Programming

SKILLS

Languages: C++, Python, SQL, Javascript, HTML5, CSS, F#
Technologies: Git, SQLite3, GDB

EXPERIENCE

Share Our Spare · **August 2023 - December 2023**

White Paper Report Specialist Volunteer · *Chicago, IL*

- Produced an effective white paper analysis of waste disposal of children's items in the Chicagoland area to quantify Share Our Spare's impact on providing an eco-friendly support system for local children.
- Conducted in-depth research and data analysis to provide substantial evidence supporting Share Our Spare's impact.
- Worked closely with a supporting specialist to refine the report, guaranteeing accuracy and overall effectiveness

PROJECTS

Open Street Maps - C++ · **github.com/loganlucas13/open-street-maps**

- Developed a comprehensive mapping and pathfinding tool using Dijkstra's algorithm to find optimized routes between buildings on the University of Illinois at Chicago campus
- Successfully optimized calculations using adjacency lists to optimize and increase performance significantly

CTA Lobbyist Database Application - Python, SQL · **github.com/loganlucas13/CTA-lobbyist-app**

- Created a robust Python application that allows users to efficiently search for information of various lobbyists within the CTA database using the SQLite3 database API
- Increased program modularity by implementing a three-tiered architecture and assigning specific tasks to each tier

SimpleC Compiler - F# · **github.com/loganlucas13/basic-simpleC-compiler**

- Created an application that uses fundamental functional programming concepts to compile SimpleC programs with integrated type-checking analysis
- Implemented a modular design through the use of separated lexer, analyzer, and parser components, enabling easier use and expansion

Portfolio Website - Javascript, HTML5, CSS3 · **github.com/loganlucas13/portfolio-website**

- Developing a comprehensive personal portfolio website to effectively communicate my skills and expand my professional network
- Employed web design best practices to create a user-friendly experience, ensuring accessibility for a broad user base and tailoring design to meet their needs
- Successfully developed a system to dynamically update repository information by integrating GitHub's REST API