

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, GPA: 3.93

Expected May 2026

- **Relevant Coursework:** Data Structures, Algorithms, Database Systems, Operating Systems, Software Design, Systems Programming, Systems Optimization

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Go, C#, Swift, SQL (PostgreSQL, SQLite3), C++, Java, CSS, HTML

Frameworks/Libraries: React, Django, ASP.NET Core, SwiftUI, Flask, Tailwind CSS, React Router, NumPy

Technologies: Git, Docker, Amazon Web Services (AWS), REST APIs, Firebase, Cloudflare Workers, Figma

PROJECTS

Final Exam Planner | C#, React, TypeScript, AWS

Aug. 2025 – Present

- Synced 100+ final exam times to users' calendars using the Google Calendar API, streamlining exam planning
- Enabled efficient access and improved backend maintainability by extracting exam scheduling data and storing it securely in the cloud using AWS RDS, implementing optimized queries and automated daily backups
- Connected backend and frontend systems by using ASP.NET Core to serve data from the C# backend to the React frontend, handling 25+ concurrent users and enabling seamless client-server communication

Community-Centric Social Media App | Go, Swift, PostgreSQL

June 2025 – Present

- Implemented 3+ microservices and cloud-based deployment to create a scalable social media platform optimized for small-group interactions to turn users' daily lives into engaging, game-like experiences
- Structured and optimized a PostgreSQL database designed for high concurrency and large-scale user interactions without performance loss, conducting rigorous testing with 500+ concurrent users to guarantee reliability
- Developed backend services in Go using the pgx interface for efficient database interaction, including secure password hashing with bcrypt to protect user credentials
- Integrated SwiftUI mobile interface with backend services via a custom REST API with over 15 endpoints to enable real-time updates across all users

Fitness Motivation App | Python, React, JavaScript, Django, SQLite3

Feb. 2025 – May 2025

- Motivated users through a personalized goal and reward system integrated with the Strava fitness app
- 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 a final tech demo to an audience of 80+ attendees, highlighting frontend design and efficient data structures, earning an average approval rating 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%

EXPERIENCE

Computer Science Tutor

Aug. 2024 – May 2025

Freelance

Remote

- Boosted academic performance of a Computer Science student at the University of Illinois Urbana-Champaign by 2 letter grades through weekly remote tutoring sessions
- Enhanced student understanding of core C++ concepts, including object-oriented design, common data structures, and memory management through live coding demonstrations