

Ellis Irwin

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Education

University of Illinois Urbana-Champaign

Grainger College of Engineering, Department of Computer Science

Bachelor of Science, Computer Science; Minor in Business

Master of Computer Science

Relevant Coursework: Data Structures, Algorithms & Models of Computation, Database Systems, System Programming, Numeric Methods, Computer Architecture, Discrete Structures, Probability & Statistics, Linear Algebra

Champaign, IL

GPA: 3.87/4.0

August 2025

May 2026

Skills

Programming Languages: C++, C, Python, SQL, Java, Linux, Bash, MongoDB, Neo4j, Verilog

Tools: Git, Jira, Confluence, Google Cloud Platform, LaTeX, Google Workspace, Microsoft Office

Languages: English, Spanish

Experience

CACI

Lisle, IL

Software Engineering Intern

May 2024 – July 2024

- Engineered a solution for live capture and processing of LTE data in C++ to locate unused frequency ranges efficiently
- Initiated and developed a program for seamless connection between a software-defined user device and network cells
- Collaborated in Agile teams, contributing to sprint planning, daily standups, and frequent milestone presentations

Ackerman Sports and Fitness Center

Glen Ellyn, IL

Camp Counselor and Fitness Attendant

August 2021 – March 2024

- Led and managed camps for 30+ children aged 5-12, planning activities throughout the day to keep campers engaged
- Provided quality customer service and participant safety, offered instruction on proper use of equipment, troubleshoot issues, enforced rules and regulations, responded to injuries and emergencies, monitored front desk and assisted customers

Projects

Wheel of Scaling

January 2024 – May 2024

- Developed a web application video game hosted on Google Cloud Platform, where users can create unique characters, purchase items, train character attributes, and participate in battles with other characters
- Scraped thousands of unique item names from name generators into SQL databases
- Incorporated complex SQL queries, transactions, and stored procedures in the back end to facilitate seamless gameplay
- Utilized Flask (Python) and HTML to link back end and front end, ensuring intuitive user interface and smooth gameplay

Bike Nest

September 2023 – December 2023

- Extracted over 5,000 bicycle parking coordinates in Chicago and integrated them into a Google Firebase database
- Developed a Java mobile app to project bicycle parking locations onto an interactive map by utilizing the Google Maps API
- Implemented a user authentication system enabling users to save preferences and settings securely in the application

Leadership & Activities

Sigma Phi Delta Engineering Organization

Champaign, IL

Vice President

December 2023 – Present

- Collaborate with alumni and four active executive members to sustain the operational integrity of the organization
- Plan, organize, and lead professional development events including resume reviews, career fair preparation, and more
- Oversee recruitment, scholastics, philanthropy, merchandising, and external operations within the organization

Recruitment Chair

December 2022 – May 2023

- Managed budget of \$2,000 to organize multiple weekly events and communicate benefits to potential new members
- Collaborated with three other recruitment chairs to optimize efficiency and effectiveness of resources

Glen Ellyn Children's Resource Center

Glen Ellyn, IL

Volunteer Tutor

December 2020 – May 2021

- Provided support, encouragement, and assistance in homework assignments for English language learner students
- Applied creative approaches to homework and instruction to connect with students and maintain high engagement