

Aspiring **Software Engineer** with experience in building scalable systems, backend infrastructure, and cloud applications. Skilled in **C/C++ debugging, concurrency, full-stack development, and system-level programming**. Teaching Assistant supporting **250+ students**, with strong communication and leadership skills

EDUCATION

University of Illinois at Chicago (UIC), IL

Dean's List (2 semesters) | GPA: 3.6/4.0

B.S. in Computer Science (Software Engineering Concentration)

| Expected May 2026

Relevant Coursework: Data Structures & Algorithms, Operating Systems, x86-64 Assembly, SQL, Software Design, Programming Language Design, Computer Design, Languages and Automata, Programming for Engineers (TA role), Computer Architecture

TECHNICAL SKILLS

- **Languages:** C, C++, Python, Java, Go, MATLAB
- **Systems & Backend:** Concurrency, Multithreading, Socket Programming, Data Structures & Algorithms, Memory Management, REST APIs, SQL
- **Tools & Platforms:** AWS, GCP, Git, Jira, GDB, Linux/WSL, VS Code
- **Other:** Debugging, System Design, Agile Development, Teaching & Mentorship

EXPERIENCE

University of Illinois at Chicago – College of Engineering

Teaching Assistant | CS 109 (MATLAB), CS 107 (C Programming)

| Aug 2024 – Present

- Led labs and office hours for **250+ students**, improving assignment completion rates by 15%.
- Debugged and explained **200+ student programs** in C/C++ and MATLAB, focusing on **pointers, memory management, algorithms**, and debugging techniques.
- Collaborated with faculty to prepare lab materials and reinforce best coding practices.

PROJECTS

BIOTRACK (Full-Stack Conservation Platform)

- Led backend development using FastAPI and SQL to track habitats, sightings, and conservation reports.
- Implemented REST endpoints and integrated with a React frontend for data visualization.
- Designed normalized database schema enabling efficient CRUD operations for 1000+ sample records.

Resume Analyzer (Python, NLP)

- Developed tool to match resumes against job descriptions using keyword extraction (TF-IDF) & scoring.
- Achieved 100% skill coverage in test cases; helps users tailor applications automatically.

Weather Application (Java FX, APIs)

- Built multi-scene UI with dynamic city backgrounds and 3-day weather forecasts using public APIs.
- Integrated location-based fun facts and tourist info to enhance UX.

Multithreaded Web Server (C)-Systems Programming

- Built lightweight HTTP/1.1 web server from scratch with sockets & thread pool.
- Implemented routing, static file serving, and per-IP rate limiting; demonstrates concurrency & networking fundamentals.

Mini Search Engine (C)

- Implemented inverted index with hash tables to rank text files by keyword frequency.
- Designed interactive CLI inspired by Google Search internals.

ClusterStore (C++, Python)

- Built a small distributed key-value store using C++ with TCP sockets, threading, and hash-based partitioning. Added a Python script to send many requests at once and measure speed and reliability.

EXTRACURRICULARS, CERTIFICATIONS & ACHIEVEMENTS

- Cybersecurity Club – CTF Competitor (Aug 2023 – Present): Reverse Engineering & Cryptography challenges
- SparkHacks Hackathon (Feb 2025): Built innovative team-based software project