Aiden Kiefer

Chicago, IL 60608 | (224) 622–9255 | aidenjkiefer@gmail.com
github.com/aidenkiefer | linkedin.com/in/aiden-kiefer

Summary

Computer Science student (Dec 2025) with hands-on experience in software engineering, machine learning, databases, and web development. Comfortable in C/C++, Python, and SQL with a foundation in algorithms, data structures, and systems programming. I like shipping clean, well-tested code and improving performance with profiling and debugging.

Technical Skills

Languages: C/C++, Python, SQL, JavaScript, HTML/CSS
Tools: Git, GCC, GDB, Valgrind, Jupyter, React, Node, Liquid, Tailwind, Linux/Bash
Data/ML: NumPy, pandas, scikit-learn, (basic) PyTorch; Decision Trees, Logistic Regression, SVMs
Systems: Multithreading, Memory Management, Debugging, Socket Programming

Education

University of Illinois Chicago — Chicago, IL
B.S. in Computer Science — Expected Dec 2025

Experience

Web Developer Intern — Thrive Vineyard Church — Palatine, IL — Jun 2024 – Present

- Built and maintained a sermon archive CMS to streamline access to digital resources.
- Improved SEO and site structure, increasing organic traffic and volunteer sign-ups.
- Managed Google Ads for outreach events, achieving ∼54% higher CTR and conversions.

Web Developer Intern — N-2 Water — Remote — May 2025 – Present

- Optimized search/shopping campaigns: keyword research, audience targeting, and ad A/B tests.
- Monitored conversion performance and produced recommendations on spend efficiency, achieving ∼189% higher ROAS and ∼76% increase in traffic.
- Building a new website from scratch to modernize the company's online presence and improve SEO outcomes.

Software Engineering Intern — Tribl Records — Atlanta, GA — Apr 2020 – Nov 2021

- Developed and maintained web-based content tools (HTML/CSS/JavaScript) to improve UX.
- Optimized database queries and server configurations for faster load times.
- Collaborated with cross-functional teams to integrate and scale media assets.

Selected Projects

Climate Change & Bird Migration (2025) — Python, pandas, scikit-learn

- Built regression models to learn climate trends (1961–2004), validated on 2005–2024, and forecast to 2050.
- Analyzed impact of projected climate change on migration timing using eBird and NOAA data.

ID3 Decision Tree Implementation (2025) — Python, NumPy

- Implemented ID3 from scratch (entropy, information gain, pruning) with unit tests and documentation.

Hospital Database Model (2025) — MySQL

- Designed ERD and mapped schemas; enforced BCNF/3NF normalization and wrote analytical SQL queries.

AllergyAssist (2016) — CodeDay Chicago (Best App, Best Overall)

- Built a mobile app to find allergy-friendly dining options; led a small team from concept to demo.