Aidan Mellin

Lake Placid, New York, US

aidan.mellin@gmail.com | https://aidanMellin.github.io | (443)-769-2362

Technical Skills

- **Languages:** C, C++, C#, Python, TypeScript, Go (Golang)
- **Technologies:** Git, PostgreSQL, gdb/Valgrind
- **Development:** Performance Optimization and Refactoring, Test-Driven Development

Work Experience

Software Engineer

Kion Group AG   May 2023 – Present

- Migrated legacy codebases in C and C++ to custom-stack web-based solutions with retrofitted API's.
- Developed new automation system to increase throughput of Procter & Gamble deliveries.
- Responsible for onsite integration testing and production deployment across three customer locations.

Contract Software Engineer

American Federation of Government Employees   March 2025

- Engineered a data processing pipeline to extract, clean, and analyze contract savings data, identifying inconsistencies and missing information from DOGE website.
- Developed structured datasets and reports that enabled legal teams to challenge Department of Government Efficiency (DOGE) claims, strengthening litigation efforts in fighting against the targeted attacks on unioned departments and their real-estate holdings.
- Built interactive data visualizations to highlight discrepancies and trends, improving legal discovery and case preparation.

Software Engineer Co-op

Eagleview Technologies   Jan 2022 – Aug 2022

- Automated data storage and management for government contract compliance.
- Designed cloud-based solutions to automate populattion of key data, reducing pilot handoff delays.
- Developed new front-end tools for GIS systems and first-responder mapping solutions.

Personal Projects

Word Hyphenation Algorithm   April 2025 – Present

- Developing a C++-based, TeX-inspired hyphenation library for cross-platform use.
- Implementing packed trie data structures for efficient and portable hyphenation.
- Creating a module for customizable poetic pattern generation.

Spotify Organizer   May 2024

- Built a playlist management tool with a custom scoring algorithm using Spotify API.
- Developed a Flask-based front end for easy manipulation and filtering.
- Designed a scalable system to optimize large playlist organization.

Education

Rochester Institute of Technology

B.S. Computer Science   Aug 2019 - Dec 2023