Aidan Mellin

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Technical Skills

- **Languages:** C/C++/C#, Python, SQL, TypeScript, Go (Golang)
- **Technologies:** Git, PostgreSQL
- **Development:** Performance Optimization, Test-Driven Development (TDD)

Work Experience

Software Engineer
Kion Group AG — May 2023 – Present

- Developed new automation system to increase throughput of Procter&Gamble deliveries.
- Led onsite integration testing and production deployment across three customer locations.
- Migrated legacy codebases in C/C++/QT frameworks to Angular based front end with custom API's

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.
- Developed structured datasets and reports that enabled legal teams to challenge Department of Government Efficiency (DOGE) claims, strengthening litigation efforts.
- 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 populate key data, reducing pilot handoff delays.
- Built 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 (Completed) — Aug 2019 - Dec 2023