Aaron Gröpper

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https://www.linkedin.com/in/aaron-louis-gropper/
https://github.com/alaoruoins

Education

Bachelor's Degree in Computer Science and Software Engineering, Minor in Chemistry
University of Washington *GPA 3.7*

Prompt Design in Vertex AI Skill Badge
Issued by Google Cloud *https://www.credly.com/badges*

Work Experience

Software Engineering Intern *06/2024 to 03/2025*
EcomAds.ai, Remote
Design and implement AI-powered features for real-time data analysis and computer vision pipelines. Develop and optimize perception systems using Python and C++ in Linux environments. Utilize Docker containers and GitHub for collaborative development. Implement comprehensive testing protocols for mission-critical software components.

Slate CRM Intern *05/2024 to 03/2025*
University of Washington, Bothell
Develop and maintain real-time data processing systems with focus on system reliability and performance optimization. Design and implement automated testing frameworks for critical database operations. Collaborate in Linux-based development environments to ensure robust error handling and system stability.

Skills

Programming Languages:
C++, Python, BASH/SH, Java, SQL

Technical Expertise:
Data Structures, Algorithms, Real-time Processing, Computer Vision, AI Programming, Generative AI, Linux Systems, Docker, GitHub, Threading, System Design, Algorithm Optimization

Software Engineering:
Software Development Life Cycles, Clean Code Practices, Technical Documentation, Collaborative Development, Problem-Solving, Critical Thinking, System Testing, Performance Optimization

Projects

Custom HTTP Protocol Implementation (C++ & HTML):
https://github.com/alaoruins/http-implementation-alaoruins.git
Engineered a real-time client-server system focusing on mission-critical reliability and performance optimization. Implemented comprehensive testing protocols and error handling for robust system operation. Developed in C++ with emphasis on clean, well-documented code and collaborative development practices.

Multi-threaded Sudoku Solver and Validator (C):
https://github.com/alaoruins/Multithreaded-Sudoku-alaoruins.git
Designed and implemented a real-time parallel processing system demonstrating expertise in multi-threaded programming and system optimization. Developed efficient thread pooling for optimal resource utilization in time-critical operations. Created comprehensive documentation and testing protocols for reliable system operation.