

Gabriel Gottlob

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Education

University of Michigan, College of Engineering

Ann Arbor, MI

B.S.E., Computer Engineering, International Minor, Minor in Statistics

Expected Graduation: May 2026

- GPA: 3.95/4.0
- Course Highlights: Data Structures and Algorithms, Intro to Computer Organization, Applied Parallel Programming with GPU's, Intro to Embedded System Design, Discrete Mathematics, Making Financial Decisions
- Member of Eta Kappa Nu (HKN) Honor Society for Electrical Engineering and Computer Science
- Awards/Honors: Engineering Honors Program (EGL), William J. Branstrom Freshman Prize, James B. Angell Scholar, University Honors and Dean's List (Fall 2022, Winter 2023, Fall 2023, Winter 2024)

Relevant Experience

Engineering Global Leadership

Ann Arbor, MI

Engineering Honors Specialization

April 2024 - Present

- Studies as a member of a competitive BSE/MSE dual-degree program, integrating engineering and business management skills through coursework at the Ross School of Business to gain multidisciplinary expertise.
- Cultivates leadership capabilities through international experience, leadership workshops, and a master's-level capstone project aimed at addressing complex engineering and business challenges for a real-world company.

Prestige Solutions

Denver, CO

Manager

May 2024 - Aug. 2024

- Managed operations at a local window washing company, including responsibilities such as door-to-door sales, window washing, and training and managing a team of washers; facilitated over \$15,000 in sales and services.

MHackers Student Organization

Ann Arbor, MI

Member of Embedded Systems Team

Sept. 2023 - May 2024

- Attended weekly meetings to learn Arduino, Raspberry Pi, and broader computer engineering fundamentals and apply them to team projects to develop teamwork and collaboration skills in an engineering context.
- Utilized Arduino (and its variant of C++) to design and build a working prototype of an eco-conscious air conditioning system that regulated temperature based on external environment conditions.

High Point Creamery

Denver, CO

Shift Lead

May 2022 - Aug. 2023

- Oversaw daily operations and demonstrated strong leadership and interpersonal skills, showcasing consistent reliability and positive relationship building with coworkers, resulting in promotion to shift lead in one summer.

Related Projects

Connect 4 Artificial Intelligence

Summer 2024

- Independently studied two-player game theory, including the minimax algorithm and alpha-beta pruning to develop an intelligent Connect 4 opponent in C++
- The AI considers both its own and the opponents potential moves up to 8 moves ahead, evaluating the strength of each board state using a self-provided heuristic function, and is incredibly difficult to beat using human skill

Simplified SQL Clone

Spring 2024

- Designed and implemented a simplified version of the SQL database query language in C++, which allows users to efficiently insert, conditionally print and delete, and join multiple data tables at once via text commands.
- Utilized various functions and data structures from the C++ STL and contains a robust testing suite, ensuring code efficiency, quality, and proper edge case handling

Skills/Languages

- C++ (OOP), C (embedded/real time programming), Python (pandas), CUDA C (multi-threaded/parallel programming)