Olivia Bakke

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Education

Northwestern University   Evanston, Illinois | McCormick School of Engineering
Major: Computer Science | Fall 2025 - Present
GPA: 3.800
Achieving Honors at McCormick School of Engineering (Fall 2025)

Providence Academy   Plymouth, Minnesota | Graduated Spring 2025
National Merit Semifinalist (Fall 2024) | National Honor Society (2023 – 2025)
GPA: 3.97/4.0 | Weighted GPA: 4.29
ACT: 34 (Superscore: 35)

Technical Experience

Technical Skills

- Programming languages: C, C++, Python, MATLAB, DrRacket
- Data Structures, Algorithms, Calculus 1-3, Linear Algebra

Relevant Coursework

- **Fall 2025:** Fundamentals of Computer Programming 1 (DrRacket), Calculus 3, Design Thinking and Communication, Engineering Analysis I (MATLAB and linear algebra)
- **Winter 2026:** Fundamentals of Computer Programming 1.5 (Python fundamentals), Engineering Analysis II (Linear algebra), Engineering Analysis III (Physics)
- **Spring 2026:** Fundamentals of Computer Programming 2 (C and C++), Data Structures and Algorithms, Design Thinking and Communication II

Projects

- **Alarmageddon**: Designed and programmed a "mobile alarm clock" car via Photon 2. The "clock" vehicle would drive away while the alarm sounded. Our group also created a corresponding web-UI to set the clock.
- **HydroCatch**: Designed and built a table gutter for a center for disabled adults for the Design Thinking and Communication course in fall 2025. Interviewed the client, collected project requirements, built prototypes, refined the final design, and delivered the completed design to the client.

Pre-College Engineering Programs

- University of Notre Dame - Introduction to Engineering (Summer 2024)
- University of Minnesota - Discover STEM (Summer 2024)
- University of Maryland - Discovering Engineering (Summer 2023)

Volunteering and Job Experience

District 65 Computer Science Research-Practice Partnership
Volunteer CS Educator, 2026 Cohort | January 6 - June 5, 2026
Teaching Python to fifth-grade students in partnership with Evanston/Skokie School District 65.

STEM Builders of Plymouth - Plymouth, MN
STEM Summer Camp K–5 Teacher | June 9 - August 29, 2025
Delivered hands-on STEM instruction through interactive, project-based lessons. Encouraged problem-solving, collaboration, and curiosity through Scratch, SpikePrime, Roblox, WeDo, and other learning tools