

Zachary Long

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Education

University of Minnesota Twin Cities

Bachelor of Science, Computer Science

GPA 3.9

Anticipated Graduation May 2027

Technical Skills

Languages: C++, Python, Java, C, OCAML, Lua

Projects

Engineering World Health - Alzheimer's Detection Device

Programming Team Member

- Contributed to the software development of a low-cost, non-invasive device using hyperspectral imaging of the retina.

Technical Courses

Machine Architecture

- Gained experience in writing, compiling, and debugging C programs, focusing on pointers, dynamic memory, and basic file I/O.
- Developed an understanding of memory management, including stack, heap, and security issues such as buffer overflows.
- Studied computer architecture, including CPU components, memory hierarchy, virtual memory, and assembly language (x86-64).

Experience

iD Tech

Saint Paul, MN

Instructor

Jun 2025–Aug 2025

- Taught tech courses (avg. 8 students per class), prepared lessons, and supported students in learning programming and creative technology.
- Maintained a safe, fun classroom environment while managing student behavior and supervising indoor/outdoor activities.

Trafera

Arden Hills, MN

Production Associate

Jun 2023–Sep 2023

- Processed devices per customer specifications (to include, e.g., installing cases, applying asset tags, scanning MAC addresses, enrolling into management, installing screen protectors, etc.)

White Bear Lake Area Schools

White Bear Lake, MN

Summer Tech Depot Lead

May–Aug 2019-2022

- Coordinated schedules and managed student workers, assigning tasks based on their strengths.