

Vinh Nguyen

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Education:

Bachelor of Science (B.S.) in Computer Science, Expected December 2024

Master of Science (M.S.) in Computer Science via Integrated Degree Program, Expected December 2025

College of Science and Engineering, University of Minnesota - Twin Cities, Minneapolis, MN

Technical GPA: 3.88, Dean's List

Relevant Coursework:

- Machine Architecture and Organization
- Operating Systems
- Software Engineering
- Intelligent Robotic Systems
- Machine Learning Fundamentals

Work Experience:

Software Development Intern

Hennepin County IT Department

January 2023 - Present

- Developed full-stack custom web applications using Angular and .NET frameworks.
- Worked closely with senior developers and other team members to implement new features during development iterations.
- Gained extensive experience in both user interfaces and API development, as well as knowledge in software development life cycle.

Embedded Systems Developer, Command and Data Handling

Small Satellite Research Lab at UM-TC

September 2021 - April 2022

- Coded, tested, and debugged communication protocols such as SPI and UART.
- Attended weekly meetings with other team members to collaborate and discuss new tasks.
- Programmed Raspberry Pi's and microcontrollers in C++ to interact with other hardware components.

Projects (available publicly on GitHub):

Mycompress: A custom file compression and decompression CLI tool for Unix-based systems. It supports multiple file formats such as .tar, .zip, .7z. Written in C.

WeatherCLI: A CLI tool to call the API from OpenWeatherMap to display detailed weather information for chosen cities to the terminal. Written in Rust for the purpose of learning Rust.

MyToDoList: A CLI tool to keep track of daily, weekly and long-term todo items as well as class schedules for personal use. Written in C++.

Skills:

Programming languages: C, C++, Rust, C#, JavaScript, TypeScript, Java, Python.

Other tools: Linux (Debian based), Git, SQL, HTML, CSS, MATLAB.

Soft skills: Problem-solving, teamwork, communication.