Stefan Hermann

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Education

University of Minnesota – Twin Cities, Honors (B.S. in Computer Science)   Expected May 2026
- **Cumulative GPA: 3.9**; **Dean's List:** Fall 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024.
- **Activities**: University Honors Program, Solar Vehicle Project, Social Coding, Competitive Programming Club, Tennis.
- **Relevant Coursework**: Machine Learning, Artificial Intelligence, Algorithms & Data Structures, Machine Architecture & Organization.

Technical Skills

Skills: Python, Java, Typescript/JavaScript, C, Node.js, React, Django, FastAPI, HTML/CSS

Technologies: Pytorch, Tensorflow, Postgres, MongoDB, MySQL, AWS, Google Cloud Platform, Azure, Flutter, Docker, Git/Github,

Experience

Spade AI, Software Engineering Intern Next.js, Python, Django, PGVector, Langchain   **Fall 2024**
- Excelled in a fast-paced startup, **handling data vectorization** with **PGVector** and integrating **Langchain** for **LLM** prompt responses.
- **Designed** and **developed scalable software** solutions from the ground up, creating APIs and systems to support **AI integration.**

Emerge Community Development, Software Consultant   September 2023 - Present
- Identified and resolved existing issues within an inventory system while implementing strategies to enhance its overall efficiency.
- Designed a **centralized inventory program** for seamless accessibility, **synchronizing updates** across all systems.
- **Designed** and **programmed** an in-store survey kiosk to help with customer visibility.

Technical Projects

SVP Customer Relationship Management System, Lead Developer (svp)   Next.js, Python, Django, Neon, Railway
- Managed the **development** and **deployment** of the CRM system for the solar vehicle project, the **largest student group at the UMN**.
- Applied a **Next.js** frontend and **Django** backend to customize specific aspects of a **customer relationship management** system.
- **Automated generation** of email threads inside the CRM and **generated summarized content** for specified email threads.

TimelyTakeoff (github)   Next.js 14, React, ShadcnUI, FastApi, Pandas
- Spearheaded the development of a **delay prediction application**, integrating **machine learning** techniques and web technologies.
- Implemented a **linear regression model** with a **root-mean-square error of 7**, and used **Pandas** to parse and clean data from **Kaggle**.

SnapFeast (github)   Next.js 13, React, ShadcnUI, FastApi, OpenAI
- Integrated **Next.js**, **React** and **ShadcnUI** to develop a user-friendly frontend user-interface, ensuring smooth interaction for users.
- Utilized **FastAPI** to build the backend, ensuring fast data manipulation, and **AI-driven image recognition** and **recipe generation**.

Discord-Clone (github)   Next.js 13, React, Shadcn, Socket.io, Prisma, Tailwind, MySQL
- Developed a **real-time messaging platform** web application using **Next.js**, and utilized **Socket.io** to host **real-time audio/video calls**.

Virtual Transit Simulator   Java, Javascript
- Developed a virtual transit simulator with a **small team**, **tracking bus, train activity and CO2 emissions** across the UMN campus.

Leadership and Activities

Solar Vehicle Project – CRM Manager: Led a small team to design, develop, and deploy the CRM software system.

Social Coding – GOpherRun Lead Developer: Developed a social running application while managing a small team of 6.

CSci Honors Experience: Helped the CSci department refine its program while finding the next generation of professors.

CSE: TALK: Oversaw a diverse group of international computer science students, facilitating their integration into the UMN