






# Stefan Hermann

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## Education

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**University of Minnesota, Honors** (B.S. in Computer Science, 3.91 GPA)

Expected May 2026

- **Activities:** Intramural Sports (Tennis, Soccer, Basketball), Lettuce Club, Boxing Club, University Honors Program
- **Relevant Coursework:** Algorithms & Data Structures, Machine Architecture & Organization, Linear Algebra, Software Design.
- **Awards:** Deans List (4x)

## Technical Skills

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**Skills:** Python, Java, Typescript, C, Dart, JavaScript, React, NodeJS, HTML/CSS

**Technologies:** MongoDB, MySQL, Firebase, AWS, Google Cloud Platform, Flutter, Docker, Git/Github, NeoVim, VSCode

## Experience

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**Emerge Community Development, Software Consultant**

September 2023 - January 2024

- Identified and resolved existing issues within an inventory system while implementing innovative strategies to enhance its overall efficiency and effectiveness.
- Analyzed inventory statistics and devised a strategic sales plan to drive and elevate sales performance, **doubling profits**.
- Established a positive vendor relationship, ensuring both satisfaction and optimal product effectiveness.
- Designed a centralized inventory program for seamless accessibility, streamlining operations by synchronizing updates across various systems, including the website and back end inventory management system.

## Technical Projects

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**TimelyTakeoff** (github)

Next.js 14, React, ShadcnUI, FastApi, Pandas

- Spearheaded the development of a delay prediction application, integrating machine learning techniques and web technologies.
- Utilized **Next.js** and **React** for building a dynamic frontend, enhanced with **ShadcnUI** for a modern design.
- Implemented **FastAPI** to create a robust and efficient backend, ensuring quick response times and scalable architecture.
- 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, MongoDB

- Integrated **Next.js**, **React** and **ShadcnUI** to develop a user-friendly frontend user-interface, ensuring smooth interaction for users.
- Used **MongoDB** to implement a database for efficient storage and retrieval of user data, inventory, recipes and updated items.
- Implemented user authentication with **next-auth** for security and user data retrieval.
- Utilized **FastApi** to develop a backend, enabling fast and secure data manipulation, http requests for communicating with front end, and image recognition and recipe recommendation algorithms using AI.

**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.
- Integrated **MySQL** database hosted locally and utilized **Prisma ORM** for efficient data management and manipulation.
- Implemented authentication with **Clerk** for secure user authentication and authorization features.
- Designed a visually appealing UI with **TailwindCSS** and **ShadcnUI**, ensuring responsiveness and accessibility across devices.

**MineSweeper**

Java, Queues, Stacks, Object-Oriented-Programming

- Developed an interactive MineSweeper game based in **Java**.
- Applied **Queues** and **Stacks** to create a **Breadth-First-Search** and **Depth-First-Search** algorithm.

## Leadership

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**CSE: TALK** Teaching Aid

August 2023 - September 2023

- Oversaw a diverse group of international students, facilitating their integration into the University of Minnesota.
- Established a classroom environment aimed at enhancing the learning and professional development of international students.
- Gave presentations on a variety of computer science and engineering topics to familiarize the students with public speaking.