# Erik "August" Heen

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## SKILLS

| | |
|---|---|
| **Languages** | • C/C++, Go, Python, TypeScript, Bash, Unix Shell |
| **Project Management** | • Agile, Jira, TeamDynamix, Git & GitHub |
| **Operating Systems** | • Linux, Windows, Android, FreeBSD |
| **Systems Administration** | • VPNs, Networking, Virtual Machines, Unix Shell |
| **Office Software** | • Google Workspace, Microsoft Word, Excel, PowerPoint |

## EXPERIENCE

**Aerospace Engineering Department, University of Minnesota** - *Software Design Intern*
June 2020 - May 2022

Overhauled & streamlined usability of data acquisition software for wind tunnel research laboratory. Analyzed 5 implementation options. • Gathered feedback from 20 users. • Constructed software requirements & specifications. • Developed, tested, and finished a product used by 100+ researchers yearly.

**Carlson School of Management, University of Minnesota** - *Student IT Assistant*
September 2022  - May 2023

Communicated with students, staff, and faculty to resolve technological issues. • Ingested emails and phone calls into support tickets in a timely manner. • Regularly resolved these tickets on my own, communicating with coworkers to both collaborate on tickets and hone my skills to resolve issues in a more efficient manner. Grew my IT skills considerably and grew my passion for constructing solutions to challenging problems.

## EDUCATION

**University of Minnesota, Twin Cities** - *B.A. Computer Science*
Class of August 2023

**Relevant Coursework**

- Project Management & Design
- Software Engineering
- Developing Games & Computer Graphics
- Social & Collaborative Computing
- Algorithms & Data Structures
- Discrete Mathematics
- Linear Algebra
- Advanced Programming Principles
- Operating Systems
- Machine Architecture & Organization

## PROJECTS

★ **Data Server**: NAS server running FreeBSD in a Supermicro JBOD chassis refitted with custom internals connected to 48 terabytes of storage on 4 drives in a RAID single-parity array through ZFS. Connected over NFSv3 to 7 MacOS computers, automatically mounts on clients via custom Apple Script app. Created specifications for network topology, data topology, and server electrical demands.

**Bill Nom**: Won 1st place at MinneHack 2023 hackathon over 42 other teams. Natural language processing (NLP) machine learning model that summarizes legal language. Trained at home using PyTorch on a dataset of  1000+ bills obtained from the Minnesota Legislature's website.

**Personal Blog**: Built using Hugo, deployed by GitHub Pages.

**Other Projects:** Feel free to ask me.