

August Heen

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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. Performs weekly backups using Backblaze.

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.

EDUCATION

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

Class of August 2023

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

SKILLS

Communication

- Project management
- Clear written & verbal communication
- Data science & analysis
- Resource management

Knowledge

- Linux & operating systems
- Bash scripting
- Python, Golang, C/C++
- Server management
- Computer networking

Tools

- TeamDynamix
- Git & GitHub
- Jira
- Scrum
- Google Workspace

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 every year.

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.