

William J. Hoppe

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EDUCATION

University of Notre Dame
GPA: 3.85/4.00 | Dean's List
Major: Computer Science

Notre Dame, IN
Class of 2025

Saint Thomas Academy
GPA: 4.33/4.00 | ACT: 35 | National Merit Semi-Finalist

Mendota Heights, MN
May 2021

PROFESSIONAL EXPERIENCE

Human Computer Interaction Research
Research Assistant

South Bend, IN
December 2022 - Present

- Collaborated on two projects, contributing to multimillion dollar grant-funded research relating to HCI and UX.
- Aided in usability study for affordable food application that resulted in doubled satisfaction on user surveys.
- Assisted with project management and administrative tasks, including literature reviews, recording weekly meeting notes, and communication between multiple research groups.

Cadets Cut
Web Developer & SEO Analyst

Farmington, MN
May 2022 – June 2023

- Designed and managed company website for a home services provider with 250+ clients using WordPress.
- Optimized for search engine page visibility and pushed site to becoming first result using Yoast SEO plugins.

RELEVANT PROJECTS

TuneWave
Full Stack Developer

Mendota Heights, MN
May 2023

- Developed a full stack web app using Node.js and JavaScript that transforms a simple concept into a full song.
- Utilized recurrent calls to OpenAI API to generate personalized song titles, lyrics, and album art from prompt.

COVID-19's Impact on US Economy Project
Project Leader

Notre Dame, IN
April 2022

- Parsed CSV data from federal economic institutions to construct Plotly graphs of quarterly trends for 15 sectors.
- Coded custom HTML and CSS stylesheets for website presentation of findings for class project.

NASA WEAR Challenge
Team Captain

Hampton, VA
Summer 2019

- Digitally designed and prototyped a chainmail space suit that protects astronauts from galactic cosmic radiation.
- Selected as finalist to present at NASA Langley Research Center to committee of space suit design members.

LEADERSHIP AND COMMUNITY OUTREACH

Dunne Hall
Database, Website, & Merch Commissioner

Notre Dame, IN
April 2022 - Present

- Upkept database of a network for 500+ members and overhauled dorm website to promote dorm culture.
- Created custom dorm merchandise and apparel with Adobe Photoshop, resulting in doubled sales of past years.

Experimental Vehicle Team
Team Captain

Mendota Heights, MN
June 2018 - August 2021

- Led team of 12 engineers in designing and building a human-powered rover ready for a lunar terrain.
- Placed first nationally in NASA Rover Challenge at NASA Space Center in Huntington, Alabama.
- Modeled and assembled 3D tool designs in Fusion360 that take liquid, solid, and core samples of lunar material.

Saint Thomas Academy Corps of Cadets
Technology Officer & Cadet Lieutenant Colonel

Mendota Heights, MN
June 2020 - August 2021

- Served as one of the seven highest ranking officers in the military program of a 500+ student brigade.
- Developed spreadsheet-based databases to manage and correlate over 50 datapoints per member of the brigade.
- Planned and ran military-related events alongside retired military personnel, such as brigade marching reviews.

SKILLS AND INTERESTS

Technical: C, C++, Python, Java, Git, HTML, CSS, JavaScript, React, Typescript, Next.js, Tailwind, Node.js, MATLAB, Bash, Assembly, Verilog | WordPress, Google Suite, Microsoft Office, Adobe Suite, Fusion360, SolidWorks

Interests: Piano Improvisation | Modern Philosophy | Artificial Intelligence | Beach Volleyball | Vinyl Records