

Jensen Holm

Computer Science & Data Science Bachelor of Science

📍 Allendale, MI 📞 (734) 272-7736 ✉ holmj@mail.gvsu.edu 🔗 <https://jensen-holm.vercel.app>

Education

Grand Valley State University

Computer Science & Data Science

<https://gvsu.edu>

2019 - 2025

Bachelor of Science

I am a rising senior in computer science with a minor in data science. I majored in statistics for two years before discovering passion for applying algorithms and math I learn through programming.

Experience

Gentex

Machine Learning Engineer Intern

<https://www.gentex.com/>

May 2024 - August 2024

Zeeland, MI

Very excited for this upcoming opportunity.

White Pine Digital

Software Engineer Intern

<https://whitepine.digital/>

September 2022 - May 2023

Grand Haven, MI

- Built backend REST API's for company applications
- Constructed front end web components using react
- Independently developed comprehensive image enhancement software
- Expanded the consumer database with ethical web scraping
- Balanced 25-30 hours per week of work with full time student status

Kalamazoo Growlers

Data Science Intern

<https://northwoodsleague.com/kalamazoo-growlers/>

May 2022 - August 2022

Kalamazoo, MI

- Analyzed data to find insights that improved on-field team performance
- Produced a Monte Carlo Simulation analysis system to calculate win probability and optimal lineups
- Operated the Trackman analytics system, which assesses the velocity, angle, rotational-speed, etc.
- Communicated data analysis in meaningful ways to coaches and players
- Operated Synergy cameras and sent data to all 30 Major League Baseball organizations

GVSU Computer Science Success Center

Student Tutor

<https://gvsu.edu>

September 2022 - May 2023

Allendale, MI

- Instructed students on object-oriented programming in python using self taught programming knowledge
- Facilitated a drop-in style workspace, while handling multiple students at one time

Projects

GPU Accelerated Quantum Scattering Theory

<https://github.com/Jensen-holm/GPU-Accelerated-QST>

December 2023 - present

Undergraduate research project

Backprop Playground

<https://github.com/Jensen-holm/BPPG>

May 2023 - Present

Hyper-parameter tuning machine learning API built from scratch

FireTCP

<https://github.com/Jensen-holm/FireTCP>

October 2023 - December 2023

Transfer Control Protocol package for the programming language mojo

Monte Carlo Baseball Simulation

<https://jensen-holm-mlb-app-app-q1fw6t.streamlit.app/>

January 2021 - August 2022

Simulate baseball games between any MLB team from 1972 - 2021 in thousands of games

Skills

| | |
|-----------------------|--------------|
| Go | Python |
| Sklearn | PyTorch |
| SQL | MongoDB |
| Linux | Git / Github |
| C/C++ | R |
| CUDA | Docker |
| Google Cloud Platform | Vim |
| Web API's | React |
| Apache Spark | Apache Kafka |

Interests

| | |
|------------------|-----------------|
| Machine Learning | Computer Vision |
| Cycling | Running |
| Chess | Reading |

Awards

Best Insight
Americal Statistical Association
March 2023
2023 GVSU ASA DataFest

American Statistical Association GVSU
DataFest Best Insight award

Relevant Course Work

Data Mining
CIS-335
Learned the mathematics and algorithms behind machine learning models like neural networks (back-prop), k-means clustering, decision trees, etc ...

Multivariate Data Analysis
STA-526
Learned and applied various multivariate data analysis techniques such as principal component analysis, logistic regression, clustering, etc ...

Information Management & Science
CIS-360
Introduction to information representation, modeling, storage, retrieval, processing, analysis, visualization, and science.

System Level Programming
CIS-241
Learned how to effectively use the Linux command line and a systems level programming language (C).