

# Jensen Holm

B.S in Computer Science & Data Science

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## Education

**Grand Valley State University** 2019 - 2025  
Computer Science & Data Science Bachelor of Science  
🔗 <https://gvsu.edu>

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** May 2024 - August 2024  
Machine Learning Engineer Intern Zeeland, MI  
🔗 <https://www.gentex.com/>

Very excited for this upcoming opportunity.

**White Pine Digital** September 2022 - May 2023  
Software Engineer Intern Grand Haven, MI  
🔗 <https://whitepine.digital/>

- 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** May 2022 - August 2022  
Data Science Intern Kalamazoo, MI  
🔗 <https://northwoodsleague.com/kalamazoo-growlers/>

- 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

## Projects

**Backprop Playground** May 2023 - Present  
🔗 <https://huggingface.co/spaces/Jensen-holm/Backprop-Playground>

Hyper parameter tuning interface built around custom Neural-Net framework I built from scratch in numpy.

**FireTCP** October 2023 - December 2023  
🔗 <https://github.com/Jensen-holm/FireTCP>

Transfer Control Protocol package for the programming language mojo

**ClusteRGB** March 2024 - April 2024  
🔗 <https://huggingface.co/spaces/Jensen-holm/ClusteRGB>

KMeans clustering visualization of images in an interactive web application, hosted on HuggingFace spaces.

**MLBTimeMachine** January 2021 - August 2022  
🔗 <https://huggingface.co/spaces/Jensen-holm/MLBTimeMachine>

Simulate baseball games between any MLB team from 1973 - 2021 in thousands of games and visualize the results in a radio dashboard.

## Skills

Go	Python
Sklearn	PyTorch
SQL	MongoDB
Linux	Git / Github
C/C++	R
CUDA	Docker
Google Cloud Platform	Web API's

## Relevant Course Work

**Data Mining**  
CIS-335  
Grasped 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  
Acquired still in data representation, modeling, storage, retrieval, processing, analysis, visualization, and science using the python machine learning framework sklearn, and software tools like Apache Spark and Apache Kafka to scale data applications.

**System Level Programming**  
CIS-241  
Became proficient with the Linux command line and the systems level language C.

## Awards

**Best Insight**  
American Statistical Association  
**March 2023**  
2023 GVSU ASA DataFest  
American Statistical Association GVSU DataFest Best Insight award

**Best Ingisht**  
American Statistical Association  
**April 2024**  
American Statistical Association GVSU DataFest Best Insight award

## Interests

Cycling	Chess
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