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

GPU Accelerated Quantum Scattering Theory   December 2023 - present
🔗 https://github.com/Jensen-holm/GPU-Accelerated-QST

Undergraduate research project

Backprop Playground   May 2023 - Present
🔗 https://github.com/Jensen-holm/BPPG

Hyper-parameter tuning machine learning API built from scratch

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

Transfer Control Protocol package for the programming language mojo

Monte Carlo Baseball Simulation   January 2021 - August 2022
🔗 https://jensen-holm-mlb-app-app-q1fw6t.streamlit.app/

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

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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

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
Americal Statistical Association
March 2023
2023 GVSU ASA DataFest

American Statistical Association GVSU DataFest Best Insight award

Interests

Machine Learning	Computer Vision
Cycling	Running
Chess	Reading