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

Numpy-Neuron	May 2023 - Present

https://huggingface.co/spaces/Jensen-holm/Numpy-Neuron

Hyper parameter tuning interface built around custom neural network framework I built from scratch in numpy. Users can install the numpyneuron neural network framework by running `pip3 install numpyneuron`.

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.

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 gradio dashboard.

Skills

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

Certifications

Baseball Pitcher Development
Rapsodo
May 2023
   https://certified.rapsodo.com/

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.

Awards

Best Insight
Americal 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