Grant Wasserman

Learner • Competitor • Adaptability • Strategic • Self-Assurance

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Education

Bachelor of Science Fall 2022 - Spring 2026
University of Nebraska **GPA:** 3.98/4.00
- Raikes School of Computer Science and Management (Interdisciplinary Cohort-Based Honors Program)
- Majors in Computer Science, Data Science, and Mathematics with a Minor in Business

Master of Science in Computer Science Expected: Summer 2026 - Spring 2027
University of Nebraska
- Pursuing a focus in Machine Learning and AI with plans to conduct research

Technical Skills

Programming Languages: Python, Java, SQL, C#, JavaScript/TypeScript, C++, R
Frameworks & Tools: React, .NET, Git, Docker, AWS, PyTorch, TensorFlow, MongoDB, Apache Spark, Hadoop, Kafka
Applied Skills: Agile Development, REST APIs, Data Analysis/Visualization, Machine Learning, Big Data, GIS, UX/UI
Quantitative Skills: Probability, Statistics, Data Modeling, Stochastic Processes, Linear Algebra, Multivariable Calculus
Core Strengths: Fullstack Development, Data-Driven Engineering, Algorithmic Thinking, Problem Solving, System Design

Projects

Neural Network Visualizer (nn-visual.com) Python, FastAPI, React, TypeScript, Docker, AWS
Interactive neural network and backpropagation visualizer
- Built a flexible neural network implementation from scratch in Python to teach and experiment with foundational machine learning principles, including forward pass, loss functions, and backpropagation
- Developed an interactive interface allowing users to customize architecture (e.g., activation functions, hidden layers)
- Designed dynamic visualizations that illustrate each training step, enabling users to observe how weights, gradients, and predictions evolve over time and affect model outcomes/performance on classification and regression datasets

CineMatch Python, React, MongoDB, TypeScript
LLM-powered movie recommendation platform
- Built a movie recommendation system using NLP for natural language filtering and context-aware suggestions
- Designed an ETL pipeline to load public datasets into MongoDB and query them using NoSQL filters

ScheduleLocal JavaScript, React, C#, .NET, SQL
Scheduling platform for small barbershops
- Developed a responsive frontend in React and APIs in .NET for appointment management and user interactions
- Designed SQL database schemas and implemented data flows for bookings, calendars, and user profiles

Run Tracker JavaScript, React, Python, Flask
Tool for mapping and analyzing my running activity data
- Boosted performance on requests via caching, threading, and concurrency for fast data retrieval.
- Integrated Garmin API for personal data and Google Maps API to generate heatmaps of frequent running routes
- Parsed and cleaned complex GPX data, aligned timestamps with spatial coordinates for temporal analysis, and managed large datasets with advanced aggregation of coordinates and dates to enable performant visualizations.

Experience

Project Development Manager (Python, Agentic AI, Computer Vision) Fall 2025 - Spring 2026
Signature Performence, *University of Nebraska - Design Studio*

Learning Assistant (Math Proofs) | ***University of Nebraska*** Fall 2025

Software Engineering Intern - Map Engineering Team (Python, C++, and SQL) Summer 2025
Garmin, *Olathe, Kansas*
- Utilized open source AI tools to empower the workflows and vastly improve the efficiency of our cartographers
- Spearheaded a novel AI-driven cartography project, presenting proof-of-concept demos to stakeholders and iterating based on cartographer feedback to guide adoption, refinement, and specific integrations.
- Made key architectural decisions on database structure, background job workflows, and data processing pipelines to define overall system behavior to allow smooth integration of new AI features into legacy c++ code.

Software Development Intern - Fullstack (React and .Net) Summer 2024 - Spring 2025
Speedway Motors, *Lincoln, NE*
- Integrated tracking information from multiple shipping providers' APIs for seamless package updates.
- Enhanced website performance by migrating to a new frontend state management system, improving CLS and INP.
- Significantly reduced API costs by identifying and caching multiple high-traffic requests across the website.

Software Engineer (Unity and C#) | ***Kiewit***, *University of Nebraska - Design Studio* Fall 2024 - Spring 2025

Certifications

AWS Certified Cloud Practitioner (Amazon, 2025) • **IBM Data Engineering** (IBM via Coursera, 2025) • **Intro to Big Data with Spark and Hadoop** (IBM via Coursera, 2025) • **Machine Learning with Apache Spark** (IBM via Coursera, 2025)

Extracurricular Activities

Clubs: Inner Circle (Professional Development), Math Club, Coding Club, Student-Athlete Advisory Committee
Student-Athlete: Cross Country and Track Athlete at Nebraska, Big 10 Distinguished Scholar, Academic All-Conference