Wyatt Brown

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Summary

Data Science undergraduate with a foundation in statistical analysis, software development, and machine learning principles. Seeking a Summer 2026 internship to apply technical problem-solving and full-stack project experience to deliver data-driven solutions.

Education

University of Minnesota | Minneapolis, MN
Bachelor of Science in Data Science (3.5 GPA) | Expected May 2027

- **Relevant Coursework:** Optimization for Machine Learning (Python, Julia/JuMP), Database Systems (SQL), Operations Research for Data Science (Case Studies), Regression & Statistical Computing, Theory of statistics
- **Upcoming Classes:** Machine Learning Fundamentals, Statistical Machine Learning, Applied Machine Learning for Computer and Data Scientists, Artificial Intelligence II

Skills

- **Languages:** Python, R, SQL, Java, C
- **Libraries & Frameworks:** Pandas, NumPy, Scikit-learn
- **Tools & Platforms:** VSCode, Docker, Git, Postman, Jupyter Notebook, Excel, QuickBooks, Adobe Suite
- **Assured Public Speaker:** Articulating complex ideas to wide audiences

Core Competencies

- **Technical Problem-Solving:** Proven ability to independently learn and implement new technologies to meet evolving project requirements and stakeholder requests.
- **Software Development Lifecycle:** Proficient in using Git for version control, managing branches for feature development, and handling project releases for deliverables.
- **Quantitative & Analytical Acumen:** Strong foundation in mathematics (Multivariable Calculus) and scientific principles gained through university physics labs, applying rigorous analysis to empirical data.

Data Science & Software Projects

Dockerized Particle Simulator with Python API

- Developed an interactive particle simulator in Java with a CSV backend to manage object-state persistence, facilitated by a Python Flask API enabling dynamic updates and state-saving.
- Containerized the application using Docker in two configurations, successfully isolating the API and the full application stack to ensure portability and streamlined deployment.

Vending Machine Sales Optimization Model

- Engineered a "Predict-then-Optimize" framework using Python (CART) and Julia (JuMP) to automate stocking decisions for a fleet of 239 university machines.
- Developed a "Sales Velocity" feature to correct temporal bias and implemented an Integer Linear Program (ILP) to minimize economic regret.
- Achieved a 51% reduction in expected economic costs per machine by optimizing product assortment based on location and seasonality.

Personal Portfolio Website | wrbr0wn.github.io / wyattbrown.info

- Designed, developed, and deployed a personal portfolio website using HTML and CSS to serve as a central hub for professional links and project showcases.

Professional Experience

XLR8 Sports Training LLC | Menasha, WI
Freelance IT Consultant & Business Operations | Oct 2022 – Jan 2025

- Provided full-stack IT support for computer systems, networks, printers, and a self-installed security system.
- Spearheaded the complete migration of 5+ years of business records from analog files to secure digital storage.
- Managed client-facing operations for 50+ clients, including scheduling, payment processing with QuickBooks, and onboarding.