Conner Toryfter

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Summary:

- Early career data scientist with strengths in Python, R, and SQL for modeling, machine learning, and data analysis, with applied experience in PyTorch, Power BI, Power Apps, and SQL Server. Known for strong quantitative work with clear business outcomes and a strong foundation in applied mathematics, optimization, and statistical reasoning.

EXPERIENCE

KRIETE TRUCK CENTER **MILWAUKEE, WI**

AI & DATA SCIENCE ANALYST *JUNE 2025 – PRESENT*

- Built an AI-powered lead scoring model for parts and service operations that automated conversion checking, reducing monthly manual review labor by 80% and freeing the sales team to focus on high-probability leads.
- Designed and deployed a custom truck check-in/check-out inspection application using Power Apps and Dataverse, replacing the company's third-party Record360 subscription and eliminating the recurring software cost across all locations.
- Developed predictive models and recommendation systems to optimize parts inventory and improve sales performance, collaborating cross-functionally with sales, marketing, and leasing teams in a hybrid environment.
- Collaborated cross-functionally with sales, marketing, and leasing teams in a hybrid work environment, creating automation tools while performing real-time testing and validation of solutions that accelerated digital transformation initiatives.

STEVE BROWN APARTMENTS **MADISON, WI**

CONCIERGE ATTENDANT *JULY 2024 – PRESENT*

- Managed comprehensive resident services at a high-traffic UW-Madison campus apartment building, including security coordination, maintenance requests, and package management, while maintaining detailed administrative records.
- Demonstrated exceptional communication and problem-solving skills, working independently during overnight shifts, effectively handling resident inquiries and emergencies in a fast-paced environment.

COURSEWORK

A* ALGORITHM PATH SMOOTHING

LINEAR OPTIMIZATION MODEL

- Implemented an advanced path smoothing algorithm combining A* pathfinding with quadratic optimization (QCQP), reducing sharp turns by 65% while maintaining optimal routes in-game navigation systems
- Developed a mathematical model using second-order Taylor expansions and smoothness constraints to transform rigid grid-based paths into natural trajectories, improving visual movement quality in 2D environments
- Engineered an adaptive smoothing parameter (λ) system that automatically adjusts path adherence based on obstacle density, achieving 88% user-reported improvement in character movement aesthetics while preserving tactical gameplay

QUANTITATIVE ANALYSIS OF S&P 500 MARKET DYNAMICS

STATISTICAL ANALYSIS & MARKET SECTOR PERFORMANCE MODEL

- Conducted statistical analysis of S&P 500 companies, examining relationships between market capitalization and stock prices across different sectors using R, revealing a moderate positive correlation coefficient of 0.36.
- Developed predictive models using linear regression to forecast stock prices based on market capitalization, implementing data visualization techniques with ggplot2 to identify patterns and market trends

EDUCATION

The University of Wisconsin-Madison - *Bachelor of Science, College of Letters & Science: Data Science and Mathematics*

SKILLS & LANGUAGES

- Skills: Data Analysis, Statistical Analysis, Mathematics, Microsoft Excel, Data Visualization, Microsoft Power Automate, Machine Learning, Natural Language Processing Models, SQL Server Management, Microsoft Power BI
- Languages: Python, R, SQL, Julia, PyTorch

ACTIVITIES & INTERESTS

- Activities: Acacia Fraternity, Data Science Club, Actuarial Science Club, Club Basketball Captain, Club Golf Team
- Interests: Baseball Sabermetrics, Film, Data Visualization & Analytics, Machine Learning & AI Ethics, Quantitative Trading, Digital Arbitrage, Artificial Intelligence