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# Stuart Scamehorn

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## Summary:

*Data scientist with an MS in Data Science and a foundation spanning computer science and the humanities, bringing both rigorous analytical thinking and the ability to translate complex findings for non-technical audiences. Demonstrated technical depth through an end-to-end NHL contract valuation pipeline integrating RAPM, ridge regression, and KNN modeling across 270 real-world contracts, alongside applied consulting and research experience. Complementary leadership background includes directing university technology initiatives, managing budgets, and contributing to conference-submitted research, bringing a collaborative, cross-functional perspective to data science teams.*

## Education:

### Master of Science in Data Science,

University of Wisconsin-Eau Claire

- Built an end-to-end NHL skater contract valuation pipeline integrating play-by-play, shift-level, and advanced on-ice data from the NHL API and Natural Stat Trick. Computed individual player impact via L2-regularized Adjusted Plus-Minus (RAPM), translating results into Goals/Wins/Standing Points Above Replacement (GAR/WAR/SPAR). Predicted cap-hit percentages for all allowable contract terms using a hybrid KNN + ridge regression model with Mahalanobis distance-based comparables, achieving a mean absolute error of 0.64 cap-percentage points on 270 real 2025–26 contracts (85.6% of predictions within  $2 \times \text{MAE}$ ). Results were packaged into an interactive Dash dashboard.

### Bachelor of Science in Computer Science, Comprehensive,

University of Wisconsin-Eau Claire

### Bachelor of Art in History, Liberal Arts,

University of Wisconsin-Eau Claire

- Summa Cum Laude, Departmental Honors in Computer Science and History

## Skills:

- **Core Technical Skills:** Python, R, SQL
- **Machine Learning & Statistics:** Ridge regression, KNN, RAPM, cross-validation, feature engineering, multicollinearity handling, MAE/RMSE evaluation
- **Data Engineering:** API data collection, web scraping, multi-source data integration, ETL pipeline development, data cleaning
- **Visualization & Reporting:** Tableau, Dash (Plotly), data storytelling for non-technical audiences
- **Supporting Tools:** Tableau, Zapier, Github, Excel, PowerPoint, ChatGPT
- Class III Gaming License, New York State Gaming Commission

## Experiences:

### Owner, Walnut Rowe Analytics LLC

Milwaukee, WI: September, 2025 - Present

- Independent data science and analytics consultancy providing project-based support in data cleaning, modeling, and visualization. Designed a data ingestion pipeline using Zapier to parse and route client data into a GPT-based analysis tool, including prompt guardrails to constrain outputs to domain-relevant insights. The firm partners with organizations on a contract basis to perform a variety of tasks to aid data science and analytics projects.

### Operations Director/Camp-Wide IT, Tomahawk Scout Camp

Birchwood, WI: June, 2025 - August, 2025

- Summer Position. Responsible for handling camp records for both 150 staff and ~3000 participants, ensuring all paperwork is orderly and accessible. Also responsible for entering in evaluation surveys and working with evaluation data, creating an end-of-year report detailing feedback received and avenues for improvement. As Camp-Wide IT, monitored network usage and troubleshooted hardware and software problems as they occurred across property.

### Graduate Assistant, University of Wisconsin – Eau Claire

Eau Claire, WI: August, 2024 - May, 2025

- Supported instruction across CS 145 (Programming for New Programmers) and CS 485 (Software Engineering II), managing assessment workflows for two lab sections of approximately 30 students each. Designed and applied grading rubrics for assignments and peer reviews, conducted office hours, and delivered lab instruction.

Co-authored a report analyzing the scalability of competency-based grading frameworks, examining assessment throughput, evaluator consistency, and workflow design across 465 interview sessions and 79 students.

**Networking Intern, Oneida Innovations Group**

**Verona, NY: August, 2023 - December, 2023**

- Hybrid intern position centered on establishing a separate repository to collect networking information from an external API and perform various queries on said data in order to identify potential risks before they arise.

**Information Technology Commission Director, University of Wisconsin – Eau Claire**

**Eau Claire, WI: October, 2021 - May, 2022**

- Lead Commission meetings consisting of both staff, faculty, and student members. Lead various initiatives targeting technology concerns and improvements across the University, including work on a long-term laptop rental program. Responsible for the allocation of the Student Technology Fee Budget.

**Initiatives and Improvements Committee Chair – Residence Hall Association,**

**University of Wisconsin – Eau Claire**

**Eau Claire, WI: May 2021 - May, 2022**

- Committee Chair in charge of organizing the creation and submission of resolutions targeted at improving the university housing experience for all students. Organized committee bonding activities and advised committee members on how to improve their resolutions as well as walk them through the process of writing and submission.

**Assistant Subcamp Director, Tomahawk Scout Camp**

**Birchwood, WI: June - August, 2021-2022**

- Summer Position. Worked alongside Subcamp Director to ensure smooth operations of camp as well as monitor and advise fellow staffers as to how to improve their program curriculum. Also served as the Scoutcraft Director (2021) and Beach Director (2022), teaching Webelos Scouts fire and knot-tying skills while constructing man-made structures for participants to utilize during their stay at camp and operating a waterfront area ensuring safe swimming for participants.

**Awards/Honors:**

- **Sean Merhar Creative Leadership Award, 2022**
- **University of Wisconsin-Eau Claire Honors Program**
- **Karlgard Computer Science Scholarship, University of Wisconsin-Eau Claire**
- **Phi Alpha Theta Honor Society Member**
- **Miller Prize for Outstanding Historical Paper**
- **Eagle Scout, Scouts BSA**

**Involvement:**

**From Solo to TA-ndem: Scaling Grading for Equity Assessments**

**Eau Claire, WI: August, 2024 - May, 2025**

- Co-authored a report on scaling competency-based grading by integrating a graduate TA and standardizing calibration and grading workflows. Analyzed time logs and assessment records to evaluate workload, throughput, and grading reliability, finding consistent student outcomes and feedback across assessors, producing a reusable workflow blueprint for training, calibration, quality checks, and escalation rules that can be used at larger institutions.

**Artificial Intelligence, Machine learning, and Security Group**

**Eau Claire, WI: March 2021 - May 2023**

- Section of the Computer Science Department; working on app development on then database side in order to create organizational aids for University of Wisconsin – Eau Claire students based on survey results conducted of the College of Arts and Sciences.
- Presented project at CERCA (Celebration of Excellence in Research and Creative Activity) and NCUR (National Conference on Undergraduate Research), both at the university of Wisconsin-Eau Claire