ARTHUR ACKER

Master's Student

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Open to Relocation
https://tinyurl.com/aacker

Data Scientist and Analytics professional with a strong foundation in statistics, machine learning, and data engineering. Experienced in optimizing databases, building data-driven solutions, and developing interactive analytical tools. Passionate about applying data science to sports performance, operational efficiency, and strategic decision-making. Skilled in translating complex data into actionable insights through clear storytelling and visualization.

PROFESSIONAL EXPERIENCE

Intern Hutchinson Trenton (September 2024 - August 2025)

- Rebuilt internal database interface for managing parts, inventory, and drawings—improving usability for 20+ engineers.
- Optimized query structure and indexing, cutting system-wide search latency from ~90 seconds to <10 seconds.
- Developed automated data integrity scripts and debugging tools, increasing maintainability and reducing downtime.

Intern Hutchinson Burbank (May 2024 - August 2024)

- Consolidated fragmented data from multiple platforms (ERP, QMS) into a cohesive and reliable source of truth, improving cross-team data accuracy by 35%.
- Built an intuitive interface using Python that transformed raw data into structured insights, accessible across teams.
- Streamlined workflows and improved data visibility, enabling faster, more informed decision-making.

Intern Hutchinson Burbank (July 2022)

- Developed and deployed Redmine-based ticketing system used by IT teams across North America.
- Automated email ingestion via IMAP/POP3 protocols, streamlining issue tracking and improving response efficiency by 30%.

ANALYTICS PORTFOLIO

Sports Analytics Dashboard: Designed end-to-end pipeline to visualize player metrics and performance insights using R Shiny.

Twitter AI Bot Detector: Used NLP, clustering based on cosine similarity, removing profanity, detecting emojis and checking grammar mistakes to detect bots injected in a large dataset of tweets. Ended with 90% accuracy

Statistical Data Science in Practicum: Led applied research involving sampling design, non-parametric statistics, and experimental analysis using R and Python

EDUCATION

University of Chicago — *M.S. in Applied Data Science* (Expected Aug 2026)

Scholarship Recipient

Relevant Coursework: Big Data and Cloud Computing, Statistical Models for Datascience, Leadership & Consulting

McGill University — *B.Sc. in Statistics & Computer Science* (GPA: 3.74/4.0, 2021–2025)

James McGill Scholarship Recipient

Relevant Coursework: Database Systems, Applied Machine Learning, Generalized Linear Models, Applied Regression

TECHNICAL SKILLS

Programming: Python, R, SQL, Bash, Java

Libraries & Tools: pandas, NumPy, scikit-learn, TensorFlow, PyTorch, Matplotlib, Tableau, Power BI, Git

Databases: PostgreSQL, MySQL

Languages: French (Native), English (Fluent), Spanish (Intermediate)

Core Competencies: Data Visualization, Machine Learning, Predictive Modeling, Statistical Inference, Data Engineering, Experimental Design