

Christopher Swenson

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PROFESSIONAL SUMMARY

I am an experienced data scientist and statistician, with successful professional achievements using statistics, machine learning, algorithms, and AI to accomplish organizational goals. I have practical knowledge in databases, data modeling, algorithm development, automation, communication, and collaboration. I am capable of full-stack development, beginning with no data or raw data and ending with analytical insights and presentations to top organizational leaders.

WORK EXPERIENCE

Career Break Aug 2025 - Present

None • Winnipeg, Manitoba

My wife was accepted to graduate school at the University of Manitoba. I transitioned out of my prior role to move to Canada from the United States. Currently, I am focused on assisting my family to adjust to a new home and country as I look for a new opportunity in Canada.

Data Scientist 3 Mar 2021 - Jul 2025

Promega • Fitchburg, Wisconsin, United States

Statistical modeling, machine learning, and forecasting.

- Matched \$1.25 billion in sales transactions to contact records, improved from 48.6% to 83.8% (SQL)
- Attained 6.4% forecast error in over 370,000 subcategories of sales transactions over 12 months (SQL)
- Achieved 83% reduction in daily runtime for a series of text searches (SQL)
- Identified at least £30,000 of potential annual savings by simplifying a promotional campaign (SQL, R)
- Found over 39,000 discussion threads similar to targeted documents (Python, R)

Data Scientist Apr 2020 - Feb 2021

SSM Health • Madison, Wisconsin, United States

Data modeling, forecasting, and reporting on COVID-19 for leadership.

- Achieved 99.8% improvement in COVID-19 hospital admission forecasting (SQL, Python, R, Stan)
- Accomplished 99.7% uptime on self-developed COVID-19 data model, used in all reporting (SQL, Python)
- Identified 847 at-risk patients (1.3% of total) for targeted COVID-19 treatments (SQL, R)

Senior Healthcare Analyst Sep 2017 - Apr 2020

SSM Health • Madison, Wisconsin, United States

Collaborative decision-making with leadership using statistics.

- Demonstrated \$0 increase in costs while reducing BMI by 7 points due to weight loss program (SAS)
- Collaborated with leadership to review patient care concerns by gender, race, and other categories (SAS); for example, found a 56% higher risk of emergency visits for black patients than white patients
- Achieved 40% increase in model accuracy by integrating social determinants of health (SAS)

Data Analyst Consultant Jul 2017 - Sep 2017

Great Wolf Resorts • Madison, Wisconsin, United States

Consulted with Great Wolf analysts on a project requiring a complex algorithm.

- Matched \$13 million of credit card transactions to reservations (SQL Server)

Senior Lead Informatics Analyst Jun 2014 - Jun 2017

Health Data & Management Solutions • Chicago, Illinois (remote), United States

ETL, report, and analytics developer for a business intelligence tool.

- Decreased time and simplified ETL process for large, external medical claims data sets (SAS)
- Reduced costs for clients by identifying low-value services (SAS)
- Decreased time and simplified ETL process for large, external medical claims data sets (SAS)

Data Scientist May 2012 - Jun 2014

Healthgrades • Madison, Wisconsin, United States

Analyzed website, call center, and medical encounter activity data.

- Automated market configuration tool based on interviews with users (PostgreSQL, Excel)
- Drove sales by providing sales team with market analytics and projected ROI (SQL, Excel)

Programmer Analyst Jul 2011 - May 2012

UW Health • Madison, Wisconsin, United States

Data architect and EMR ETL developer for research data model.

- Automated and simplified ETL, and improved patient medical home assignment logic (SAS)
- Propelled research on complex medical topics by providing accurate data sets (SAS)

Clinical Data Analyst Jul 2010 - Jul 2011

UW Health • Madison, Wisconsin, United States

Analyzed medical record data on patient quality measures.

- Automated pay-for-performance reporting pipeline based on interviews with users (SAS, Excel)
- Salvaged historical quality measure data for data warehousing and reporting (SAS)

Health Care Analyst II Sep 2008 - Jul 2010

Dean Health Plan • Madison, Wisconsin, United States

Provided analytical insight on medical claims data.

- Managed HEDIS data ETL project / analyses, coordinating activities with another analyst (SAS)
- Developed a complex algorithm for identifying primary care provider in an open network (SAS)

Researcher Sep 2005 - Jul 2008

Renaissance Learning • Madison, Wisconsin, United States

Conducted quasi-experimental research on product use and student achievement.

- Demonstrated efficacy of products in improving achievement on a state standardized test (SPSS)
- Communicated research results to teachers and administrators

EDUCATION**Master's Degree in Applied Statistics** Aug 2020 - Dec 2024

Pennsylvania State University • World Campus (Online), United States

- Coursework: Regression, Experiments, Epidemiology, Machine Learning, Multivariate, Time Series
- Programming Languages: Python, R, SAS

Bachelor's Degree in Psychology and Music Sep 2000 - May 2005

University of Wisconsin-Whitewater • Whitewater

- Psychology: Statistics, Research Methods, Independent Study, Honors Thesis
- Additional coursework in mathematics and science

PROFESSIONAL CREDENTIALS

- Manager Boot Camp from Wisconsin School of Business (2022)
- Certificate in Machine Learning (Python) from Enthought (2020)
- Certificate in Machine Learning (Octave) from Stanford University (2013)

SKILLS

- Platforms: Azure Databricks, VS Code
- Languages: SQL, Python, R, SAS, Bash
- Reporting: Power BI, PowerPoint
- Databases: SQL Server, SQLite, Oracle
- Data Formats: Spark, Parquet, Excel, CSV
- Machine Learning Techniques
- Statistical Analyses
- Design of Experiments
- Causal Analyses
- Algorithms and Automation
- Reporting and Presentations
- Data Transformation (ETL)

VOLUNTEER WORK

Founder and Lead of the Neurodivergent Support Group

Feb 2023 - Jul 2025

Promega • Fitchburg, Wisconsin, United States

I established a support group for parents of neurodivergent children. Over time, the group expanded to neurodivergent employees. I lead the group by scheduling regular group meetings, administering the online chat group, and maintaining a registry of members.

Foster Parent

Oct 2012 - Mar 2014

Dane County • Madison, Wisconsin, United States

Cared for an infant foster child

AWARDS AND HONOURS

Building Connections

2023

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"This award for Building Connection recognizes your commitment to uniting groups within the company to improve relationships, reduce conflict, and ensure that everyone's voices are heard and validated." I won this award for my efforts with the neurodivergent support group, along with two others, one of whom supported me in setting up and running the support group.

SAMPLES

- Master's Degree Capstone Paper: <https://bit.ly/3EFERrO>
- Surveillance Analysis: <https://youtu.be/63szVeJ4lSo>
- Power BI Report Demonstration: <https://youtu.be/cjVap-5vKsc>
- Additional samples online at <https://www.cswenson.com/>