

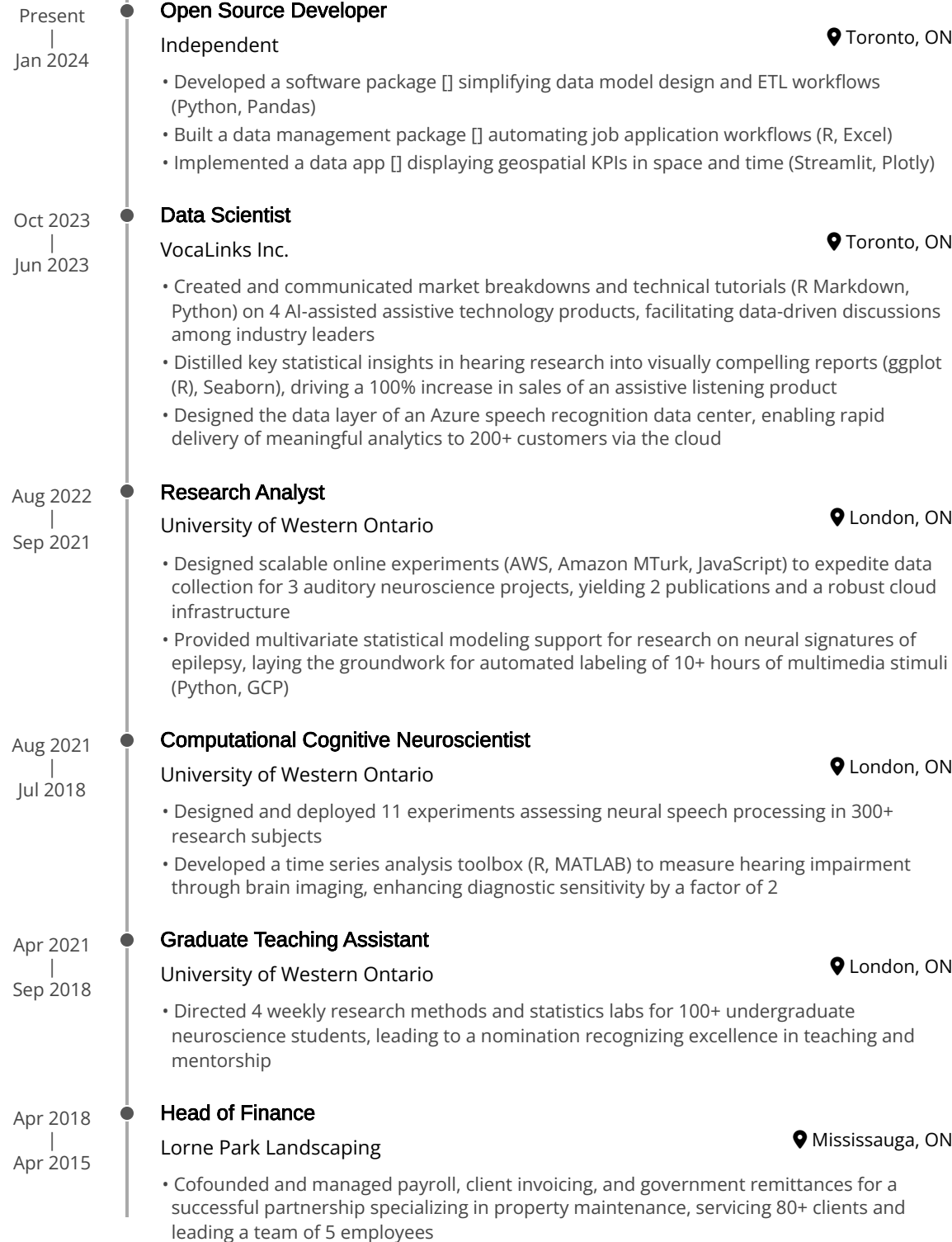
# Matthew Bain, MSc

Data Scientist | Tableau, Databricks | Neuroscience Researcher Turned AI Developer

Data Scientist with 5+ years experience and certifications in Tableau and Databricks. My work spans neuroscience and assistive tech, with a focus on robust, interpretable ML. I help organizations understand their data and automate the hard stuff. I am seeking a role involving analytics and pipeline development.



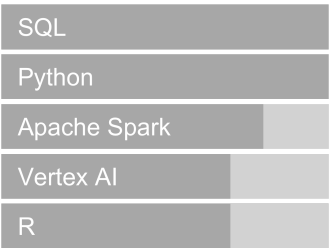
## Professional Experience



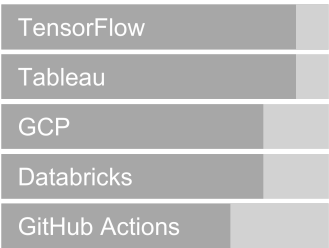
## Contact

Ontario  
[Personal Website](#)  
[GitHub](#)  
[LinkedIn](#)

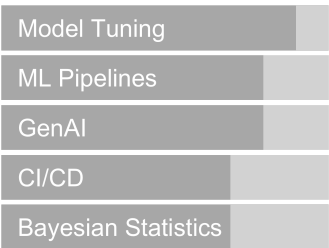
## Core tools



## Platforms



## Key competencies



Last updated on 2025-04-10.



## Education

Dec 2023   Sep 2021	<b>BSc (Honours), Mathematics and Statistics</b> McMaster University	📍 Hamilton, ON
Aug 2020   Sep 2018	<b>MSc, Neuroscience</b> [ <a href="#">Thesis</a> ] University of Western Ontario	📍 London, ON
Apr 2018   Sep 2014	<b>BSc (Honours), Neuroscience</b> McMaster University	📍 Hamilton, ON



## Certifications

Mar 2027   Mar 2025	<b>Databricks Certified Data Engineer Associate</b> [ <a href="#">Certificate</a> ] Databricks
Feb 2027   Feb 2025	<b>Tableau Certified Data Analyst</b> [ <a href="#">Certificate</a> ] Tableau
Expected May 2025	<b>Professional Machine Learning Engineer</b> Google Cloud Platform (GCP)
Expected Nov 2024	<b>Machine Learning Specialization</b> [ <a href="#">Certificate</a> ] Stanford University
Expected Nov 2024	<b>SQL Basics for Data Science Specialization</b> UC Davis



## Selected Projects

Present   Jan 2024	<b>datopy (Data Management Python Package)</b> [ <a href="#">Documentation</a> ] <ul style="list-style-type: none"><li>Implemented and maintain a package for handling unstructured data, providing a simple interface for data modeling, extraction, validation, and building ETL pipelines (Pandas, PyTest, Pydantic, GitHub Actions)</li></ul>
Present   Apr 2024	<b>mlvizz (Machine Learning Data Visualization Package)</b> <ul style="list-style-type: none"><li>Build Python interfaces for efficient, intuitive model selection, tuning, inspection, and ML pipelines through modular, object-oriented designs with built-in data validation (Scikit-learn, TensorFlow, ArviZ, PyMC, SciPy)</li></ul>
Present   Apr 2024	<b>statvizz (Statistical Data Analysis Visualization Package)</b> <ul style="list-style-type: none"><li>Build Python extensions unifying Pandas data summarization with Seaborn statistical plotting functionality for a unified, intuitive, fully transparent statistical plotting interface (Pandas, Seaborn, SciPy, Matplotlib)</li></ul>
Present   Jul 2024	<b>mathvizz (Mathematical Visualization Package)</b> <ul style="list-style-type: none"><li>Build Python interfaces for exploring the geometry of machine learning math, including linear maps, derivatives, statistical distributions, and series approximations (SymPy, SciPy, Seaborn, Matplotlib)</li></ul>

