

NIKOLAS GAZO

Hamilton, ON, CANADA

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EDUCATION

Master of Science - Geophysics 2015 - 2017
Laurentian University, Sudbury, ON

- Thesis Title: *Ground electromagnetic experiments to investigate the possibility of using an airborne electromagnetic system to detect nuclear magnetic resonance associated with unbound water in the subsurface*

Honours Bachelor of Science - Honours Physics Co-op 2010 - 2015
McMaster University, Hamilton, ON

- Courses of instruction: Environmental Geophysics, Particle Physics, Ordinary & Partial Differential Equations, Calculus, Linear Algebra, Electromagnetic Theory, Classic & Quantum Mechanics, Mathematical Physics, Scientific Computation, and Computational Physics

SKILLS

- Python
- Shell Scripting
- L^AT_EX
- Plotly/Dash
- Linux/Unix
- Git
- Hadoop/Hive/Spark
- TCP/IP
- ML/AI techniques
- JavaScript, HTML, & CSS
- SQL
- Django Framework

PERSONAL PROJECTS

Horse Racing Database Management June 2018 - Present

- Develop web ‘scraping’ tools to gather freely available data on the internet
- Write algorithms using Bash and Python scripting to parse data and output basic statistics
- Analyze past results to develop algorithms and metrics to increase likelihood of winning bets
- Create interactive dashboards using Plotly/Dash to use in real-time or historical analyses

WORK EXPERIENCE

Associate, Software Developer, Group Treasury October 2022 - Present
Scotiabank, Toronto, ON

- Develop, test, and deploy production-ready analytical tools, and web-based applications to measure, forecast, and simulate balance sheet structural interest rate risk exposure
- Interact and build Flask API's that assist in running various simulations and other team related tasks
- Build data pipelines for data ingestion, cleaning, reformatting, and analytics using Python, SQL, and Dash or React.js

Data Scientist, Personal Banking Data & Analytics
Toronto Dominion Bank, Toronto, ON

July 2022 - October 2022

- Design and develop Machine Learning models in the personal banking space
- Work daily with Hadoop cluster using Hive, Spark, Python, and SQL to extract client insights
- Collaborate with team members in an Agile framework to deliver code requirements in feature roadmap

Data Scientist, Risk Analytics (Anti-Money Laundering)
Canadian Imperial Bank of Commerce, Toronto, ON

December 2020 - July 2022

- Work with SQL databases to query appropriate information in a time sensitive manner
- Manipulate and clean various data inputs for use in monthly reports
- Run Machine Learning models to increase conversion rates for AML cases
- Completing ad-hoc requests using Python, SQL, or other various data analytical tools

Project Analyst

December 2018 - December 2020

Canadian Imperial Bank of Commerce, Mississauga, ON

- Responsible for ensuring project control procedures and policies are executed optimally
- Assist Project Managers to ensure business needs and outcomes are met
- Accountable for tracking information from projects to support the project delivery team
- Act with urgency while exploring innovative ideas and automation to increase productivity

Data Analyst

October 2017 - June 2018

Geotech Ltd., Aurora, ON

- Perform quality control and quality assurance (QC/QA) on airborne geophysical data
- Develop processing techniques to apply to time-series geophysical data
- Prepare time-sensitive reports and results to head office
- Work with company management and clients to provide preliminary survey results

Developer

April 2014 - December 2014

Environment Canada, Toronto, ON

- Develop numerical tools in support of climate and numerical weather prediction models
- Acquisition and analysis of data for lake areal extent, depth, and transparency
- Development of global/regional databases with lake data for direct input into Environment Canada's suite of land surface models

AWARDS AND ACCOMPLISHMENTS

- 2016 Canadian Exploration Geophysical Society (KEGS) Pioneers Scholarship
- Second Place Oral Presentation in "Geophysics" category at 2013 CUPC
- OMHA hockey championships
- OFSAA hockey quarterfinalists
- Grade 12 Environmental Science Award
- Junior Boys Soccer M.V.P.