Hamid Zarringhalam

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Skills

- Database: SQL, PostgreSQL
- Programming: Python, JavaScript, D3, Leaflet
- Spatial Analysis: R, SPSS, ArcGIS, QGIS, GeoPandas, PCI Geomatica, FME, Alteryx
- Cloud: Azure
- Data Analysis: Power BI, Tableau
- AI: Machine Learning, RPA (Robotic Process Automation), Power App, LLM

- Willingness to learn.
- Critical thinking

Interests

- Playing music
- Running
- Reading
- Travel

I am passionate about transforming data into meaningful insights and interactive experiences. I thrive on analyzing large-scale datasets using tools like SQL, Excel, Power BI, Python, QGIS, ArcGIS Pro, and R to build descriptive and predictive analysis that support forecasting and decision-making. I enjoy developing forecasts with VSS, LLM, ML, and full-stack applications using Python Flask and PostgreSQL.

Professional Experience

TD Bank of Canada, Toronto – *Senior IT Build Specialist*
March 2021-Present
- Analyze large-scale data; develop analysis with SQL, Excel, Power BI, and Python
- Develop and visualize descriptive and predictive analysis for forecasting and decision support via data analytics.
- Manage Virtual Data Rooms for secure file transfer solution

TMU – Research Assistantship and Internship
May 2025 - Present
- Developing application for tree species biomass calculation with Python Flask and PostgreSQL
- Map the development of immigration in Toronto with ArcGIS, Experience Builder and Story maps.
- Developed interactive real time earthquake map with D3.js and Leaflet.js
- Developing VSS (Vector Suitability Score) Model in QGIS
- Digitized Diked Wetlands for Conservation Ontario with ArcGIS products

Conestoga College, Kitchener-Waterloo Campus – *Instructor*
Jan 2024-Dec 2024
Teaching Emerging Technologies Course
- Change in Business Analysis, Artificial Intelligence, Robotic Process Automation, Cloud and Cyber-Security

TD Bank of Canada, Mississauga – *Senior IT Build Specialist*
Nov 2015-March 2021
Implementing and coordinating Unified Collaboration projects
- Worked closely with the business and design team to coordinate the technology solutions to the business, proposing improvements that leverage the power of the Cisco Unified Collaboration platform.
- Provided guidance and training on IT general controls and IT application controls methodology/standard/guidelines to technology groups

TD Bank of Canada, Mississauga – *Design and Solutions Specialist*
Nov 2014-Nov 2015
Designed and implemented Unified Collaboration
- Created high level design for integration and replacement of acquired organization's voice/video applications
- Led development, testing and quality analysis functions to ensure that projects are securely delivered and fulfill expectations

Certificates:
PMP (Project Manager Professional)
CISA (Certified Information System Auditor)
CDPSE (Certified Data Privacy Solutions Engineer)

Education:
Master of Spatial Analysis, (Current Student)
TMU……………………………..2024
Data Science –Analytics & Big Data,
University of Toronto………………2021