MICHAEL SHEROUBI

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BSc. Computer Science | Security+

EXPERIENCE

Data Analyst & Support. *Clearmind International - Canada*   2020 - Present
- Developed an ETL solution using Python to migrate over 7 years of historical data; from legacy systems & csv files to a cloud-based solution.
- Designed OLTP database to handle simultaneous transactions by 20+ instructors while maintaining ACID compliance & data integrity.
- Normalized transcript data to improve query performance, reducing query run-time by over 75% and increasing accuracy of search results.
- Optimized registration process by modelling its flow of data and removing waste, trimming operational costs by 23%.
- Ensured enterprise-wide compliance with federal & international data protection regulations.

SKILLS

Tech Stack: Python (pandas, NumPy, TensorFlow, Beautiful Soup, scikit-learn, Matplotlib, PIL, opencv2), SQL, Excel, Java
Theory: Date Analysis, Database Design, ETL, Graph Theory, Natural Language Processing

EDUCATION

University of British Columbia
BSc. Computer Science
- Honours Program | Minor in Mathematics | 3.90 GPA on 4.33 scale

Certifications: CompTIA Security+, Neo4j Certified Professional, Google Data Analytics

PROJECTS: ACADEMIC & EXTRA-CURRICULAR

Data Warehouse (Capstone), *Trellis Social Enterprise*
Engineer
- Designed, developed, and implemented a data warehouse solution using Redshift, combining data from 4 disparate sources to prepare them for analysis.
- Developed an ETL solution (from the ground up) to migrate data in batches from mongo DB to the data warehouse using Python scripts & task scheduler.
- Created and executed automated test plans, cases, and scripts to validate data integrity, and identify software issues & their root causes.
- Designed and optimized complex SQL procedures called by the company's internal dashboard.

Team Lead
- Collaborated with key stakeholders to gather requirements and establish a timeline with milestones & deliverables.
- Coordinated distribution of tasks & resources among team members while weighing everyone's strengths, weaknesses, & preferences.

"Michael has proven to be not only a great leader but an excellent mentor for the whole team. He takes initiative and ensures we're all on the same page when challenges are thrown our way. He is there to assist no matter what and is consistently keeping track of everything."
Read more evaluations here

Honours Thesis, *University of British Columbia*
Benchmarking performance for Neo4j in a social media application
- Developed automated test suites using Python to benchmark & document a Neo4j database's performance compared to a database using SQL Server.
- Generated and processed over 5 million rows of interconnected test data using Python.
- Created matching queries in SQL and Cypher to derive insights and answer questions from the social network.

OTHER

English: Native/Fluent   **Arabic**: Native/Fluent   **French**: Limited Working