MANTEJ SOKHI

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EXPERIENCE

Jr. Python Developer — Jan. 2024 - Aug. 2024
Inverted AI — Vancouver, BC

- Engineered Python-based solutions to extract, clean, and structure large-scale datasets with efficiency and accuracy.
- Optimized computer vision datasets by identifying and correcting labeling errors in CVAT, enhancing data reliability.
- Developed high-impact visualizations in JOSM to effectively communicate complex scientific insights and model outcomes to clients.

Research Assistant — Jan. 2023 - Dec. 2023
Kwantlen University — Surrey, BC

- Conducted research in the area of graph theory under the supervision of Dr. Asiyeh Sanaei to analyze and develop methods for pursuit evasion games.
- Compared various graph algorithms to assess how well they work in terms of accuracy and time complexity.
- Utilized Python libraries to derive meaningful insights from graph data to identify patterns and trends in player strategies.

Operations Analyst — Jun. 2023 - Sep. 2023
Scrubbi — Vancouver, BC

- Designed and implemented complex SQL queries to meet business requirements, ensuring optimization and efficiency.
- Generated Power BI reports and integrated them into other applications using SaaS, or by API automation.
- Continuously monitored and optimized database performance to enhance efficiency.

EDUCATION

M.Sc. in Applied Mathematics — In Progress
Simon Fraser University — Burnaby, BC

B.Sc. Honours in Applied Mathematics — Sep. 2019 - Dec. 2023
University of British Columbia — Vancouver, BC

- **Thesis:** Asiyeh Sanaei and Mantej Sokhi. Damage Number of Möbius Ladders and Uniqueness of the Wagner Graph

SKILLS

Programming: C, C++, Python, R, SQL, NoSQL, HTML, Bash
Tools: Maple, Matlab, Sage, Tableau, Power BI, Spark, Linux