Ridvik Pal

647-808-4531   ridvik.pal@outlook.com   Ontario, Canada   github.com/ridvikpal   linkedin.com/in/ridvik-pal

Education

University of Toronto - Toronto, ON   **Sep 2021 - May 2026**

- B.A.Sc. in Computer Engineering

- Minor in Artificial Intelligence Engineering

- Minor in Engineering Business

Skills

Languages: Python, Java, C++, SQL, Microsoft VBA, Bash
Tools: MySQL, PostgreSQL, Git, GitHub, Microsoft Excel, Maven
Frameworks/Libraries: Spring Boot, JavaFX, Qt, Pandas, Plotly, Matplotlib
Concepts: DevOps, REST APIs, Debugging, Multithreading, Engineering Design

Work Experience

Intern Software Engineer

Xero - Toronto, ON   **May 2024 - August 2025**

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SEO IT Systems Assistant

Ministry of the Solicitor General - Toronto, ON   **May 2023 - Sep 2023**

- Automated creation of Excel database worksheets by programming VBA scripts, saving hours of work time each day.

- Generated daily data analytics reports processing, validating, and cleaning thousands of lines of raw data on the operation of Cisco codecs utilizing Excel power queries.

- Created and updated data for thousands of configuration items (CIs) in the configuration management database (CMDB) via the BMC Remedy Asset Management Console.

- Updated and managed project documentation for hundreds of projects.

Mathematics, Physics, and Computer Science Tutor

Varsity Tutors - Remote   **May 2022 - Current**

- Tutored over 60 students ranging from high school to university level, specializing in mathematics, physics, and computer science.

- Am currently a 5-star rated tutor on the platform, receiving glowing recommendations from students and their parents.

Projects

CarCartAPI

REST APIs, Java, Spring Boot, MySQL, Spring MVC, Maven, Git

- Java Spring Boot REST API that retrieves used car listings, updates used car listings, and provides car information using the ChatGPT 3.5 Turbo AI Model.

- Supports GET, PUT, POST, DELETE requests with fully multithreaded calls.

RainyDay

Java, JavaFX, Maven, CSS, REST APIs, Git

- Java weather app built using a JavaFX GUI and a custom modular backend weather API.

- Supports current and future weather for over 1,000,000 cities, weather alerts, user notifications, 15 different light/dark themes and touch input.

MarkedUp

Python, Virtual Environments, REST APIs, PyQt5, Plotly, Pandas, Git

- Python desktop stock market app inspired by Yahoo Finance, built using the TwelveData REST API and PyQT5 GUI library.

- Supports stock quotes for over 20,000 stocks, interactive candlestick charts, smart autocomplete equity search, favourites watchlist, a custom GUI with light/dark themes, and internal multithreading.

SimplyTrack

Python, MySQL, PySimpleGUI, Matplotlib, AES Encryption, Git

- Python Financial tracker app that stores financial data in a MySQL database with a GUI built in PySimpleGUI.

- Supports AES 256-bit encryption, data visualization with matplotlib, csv data import, a custom GUI with light/dark themes, bulk data modification and manual data entry.

MatchMap

C++, GTK3, Make, Git, Linux

- C++ GIS mapping software built using the OpenStreetsMap database and GTK3 GUI library.

- Supports complete car routing, 19 international cities, multithreading, distinct colour scheme, a custom GUI with light/dark themes, and advanced search features.