Purav Ashokbhai Panchal

- panchalpurav.27@gmail.com
- +1 (437) 661-4979
- linkedin.com/in/purav-panchal-637655268
- Mississauga, Ontario

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CAREER OBJECTIVE:

Dedicated Computer Engineering Technician with practical experience in networking, embedded systems, application development, database management, and software engineering. Skilled in Python, C++, Kotlin, MySQL, and JavaScript, with a strong ability to develop, optimize, and integrate software solutions. Skilled in troubleshooting and certified in multiple industry-recognized programs, demonstrating expertise in software development and front-end/mobile application design. Seeking an Applications Developer role at Sobeys to apply my technical skills in building efficient, scalable, and user-focused applications.

SKILLS:

- **Networking & Security:** Cisco networking (CCNA-level), LAN/WAN, TCP/IP, routing & switching, VLANs, subnetting, DHCP, DNS and firewall configuration.
- **Embedded Systems:** Microcontroller programming (PIC, Raspberry Pi), real-time systems, and IoT device integration.
- **Programming Languages:** Python, C++, and Kotlin for Android development.
- **Web Development:** Developed a Chrome extension using HTML, CSS, and JavaScript.
- **Database Management:** SQL, MySQL, and database optimization techniques.
- **Operating Systems:** Windows, Linux (Ubuntu), and basic shell scripting.
- **Problem-Solving:** Ability to analyze complex issues and develop effective solutions.
- **Team Collaboration:** Experience working in team-based projects and cross-functional environments.

PROJECTS: JAN 2025 – FEB 2025

Pet Clinic Database

- Created and implemented a relational database to store pet breed-specific disease information using MySQL. Developed a query-based system to retrieve disease names and descriptions based on pet type, breed and symptoms.
- Built a user-friendly interface with optimized SQL queries for efficient data retrieval and seamless user interaction.

Nasa API Application   JAN 2024 – MAY 2024

- Developed a Python application to fetch and process astronomical data from NASA's public API using requests and JSON parsing.
- Integrated error management and caching systems to enhance API requests and boost response time effectiveness.

ORC Chrome Extension   DEC 2024 – FEB 2025

- Developed a Chrome extension using JavaScript and Tesseract.js to extract and process text from images.
- Integrated Optical Character Recognition (OCR) to enable users to capture and convert text from webpages or uploaded images.

- Designed a user-friendly interface with HTML, CSS, and JavaScript for seamless interaction and efficient text extraction.

ACHIEVEMENTS:

- Developed a Chrome Extension with OCR capabilities using JavaScript and Tesseract.js for text extraction.
- Designed and implemented a relational database for a Pet Clinic System using MySQL, optimizing queries for efficient data retrieval.
- Earned the "Python for Everybody" certification from the University of Michigan, demonstrating proficiency in Python programming.
- Achieved Meta Front-End Developer Certification, showcasing expertise in HTML, CSS, JavaScript, React, and UI/UX design.
- Completed Meta Android Mobile Application Development Certification, gaining advanced skills in Kotlin, Android Studio, and mobile UI/UX.
- Completed Cisco NetAcad training in networking fundamentals.

EDUCATION:

Computer Engineering Technician   SEP 2023 – APRIL 2025
Sir Sandford Fleming College, Peterborough, ON

LANGUAGES:

English – Professional Proficiency
Hindi – Native/Fluent
Gujarati – Native/Fluent