Krish Patel

PERSONAL INFORMATION EXISTS HERE... STRICKEN FROM THIS PUBLIC RESUME

EDUCATION - Toronto Metropolitan University

Computer Engineering Undergraduate - Deans List   Sept 2021 - Apr 2026
Computer Science Minor - Specialization in Artificial Intellegence   Jan 2023 - Apr 2026

PROFESSIONAL EXPERIENCE

Toronto Metropolitan Aerial Vehicles - *Communications Systems Lead*   Sept 2022 - Present
- Implemented a redundant drone RFD + LTE telemetry setup to the ground station
- Utilizing Raspberry Pi and Jetson module over LTE to control the drone
- Employed platforms such as **Ubuntu 18/20**, Mission Planner, and Zerotier to streamline operations

Toronto Metropolitan University - *Mathematics Research Internship*   May 2022 - Aug 2022
- Enhanced **Calculus I** and **II** Courses for improved relevance to Engineering Students

TECHNICAL SKILLS + AWARDS

- Programming Languages: Assembly, C/C++, CSS, HTML, Java, Matlab, PHP, Python, SQL
- Networking: DHCP, Email Server, OpenWRT, Unifi Wireless Lan Controller and Switches, **Port Mapping**
- Server Applications: Docker, DNS server, **Internet Information Services (IIS)**, Termius
- Hardware Skills: Oscilloscope, Function Generator, FPGA Board, HCS12 CPU, PID Controller
- Operating Systems: CentOS, ProxMox, Raspian, Synology, Ubuntu(18 - 23), Unix, Windows Server
- Final Cut Pro video editing for educational engineering Youtube videos and short movies
- Award: Excellence in Higher Level Business (International Baccalaureate)

PROJECTS

Home Server Setup: Windows Server + ProxMox + Synology
- Installed three servers that can be access globally using a private ZeroTier **cloud vpn**
- Running virtual machines on Hypervisor for Home Automation, Portainer and Wireless Lan Controllers
- Hosted websites using an IIS server routed through Cloudflare Tunnels on Windows Server 2019

Personal + Server Portfolio Websites
- Built portfolios using HTML, CSS, and JavaScript to market my professional image and relay an anonymous form of communication via my contact page

Library Store App - Expanded on University Project
- Currently in progress of converting the local application into a containerized web app
- Spearheaded a team in the development of a single-window Java GUI application
- Strategically utilized UML diagrams to ensure comprehensive task planning and project execution

COMPETITIONS

Urban Sprawl - Population Metrics
- Metropolitan Engineering Competition 2022 **1st**
- Developed a website utilizing **Python** processing of a **MySQL** database to analyze UN population data
- Employed **chart.js** to graphically display the estimated top 10 countries with highest growth rates by 2030

Hospital Locator - Ontario Engineering Competition
- Managed "readingFile.csv" data, incorporating Ontario Hospital classifications, with key parameters

Aboriginal-English Language Translator
- Designed a web translator for easy access to everyone and achieved **3rd** (2021 Ryerson Engineering Comp)