Sunny Patel

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TECHNICAL SKILLS

Programming: Java, Python, Go, Scala, PowerShell, C++, C#, YAML, Kotlin, Assembly (x86/ARM)
Backend: Django, Ruby on Rails, MongoDB, PostgreSQL, MySQL, Express.js, ASP.NET Core, Spring Boot, Kafka
Frontend: React.js, JavaScript, Flutter, TypeScript, WebGL, GraphQL, Tailwind CSS, Three.js, Vue.js
DevOps/Cloud: Git, Docker, Kubernetes, Azure, GCP, AWS (ECS, S3, Lambda, Beanstalk, RDS), Jamf Pro, Datadog
OS: Windows Server, Kali Linux, Debian, Red Hat Enterprise Linux, FreeBSD

EDUCATION

Ontario Tech University   Oshawa, ON
Honours Bachelor of Science in Computer Science — Expected Graduation: April 2026   *2022 – Present*

EXPERIENCE

IT Technician – Canada's Wonderland   Jun. 2023 – Present
Vaughan, ON   *On-site*

- Supported pre-cutover **tenant-to-tenant migration** during Six Flags acquisition for 3,000+ directory objects, including **hybrid Azure AD/on-prem onboarding**, OU staging, and **Ivanti Neurons UEM** rollout.
- Authored 10+ **PowerShell/ConnectWise** scripts automating workstation imaging, printer/DFS drive mappings, and user profile migrations.
- Built and deployed **MDT** task sequences and Sysprep-captured **WIMs** for Windows fleet provisioning.
- Managed **Active Directory** accounts, security groups, and **GPOs**, ensuring consistent ACL enforcement across **Exchange**, **SharePoint**, and internal apps.
- Configured **Cisco CUCM**, **Unity**, and **Finesse** to optimize VoIP routing, voicemail, for call center operations.
- Performed network maintenance including switch patching, **VLAN tagging**, trunking, and **PoE resets** via **SSH** in PuTTY.
- Deployed and supported **Oracle Simphony/EMC** POS, debit, and KDS systems, with rollouts tracked in **Jira/Confluence**.

System Support Specialist – Mackenzie Health   Jan. 2023 – Aug. 2023
Richmond Hill, ON   *On-site*

- Migrated 400+ **Surface tablets** to bedside **iPads**, leveraging **Intune** and **Jamf Pro** for secure deployment across clinical units.
- Developed internal **admin portal** for managing app services, user roles, and subscription lifecycles.
- Implemented **Vocera VOIP** on iPhones to enable real-time communication across ER and nursing staff.
- Coordinated with vendors on bug logs, updates, and hardware issues, ensuring minimal downtime for critical hospital devices.

Tech Sales Associate (Co-op) – Staples Canada   Sep. 2020 – Feb. 2021
Richmond Hill, ON   *On-site*

- Performed on-site installs, repairs, and optimizations for **Windows**, **Mac**, and **Linux** systems.
- Maintained accurate sales/inventory data in **IBM AS/400**, streamlining workflows and customer support.

PROJECTS

Axelot | *Next.js 16, TypeScript, Firebase, TipTap 3, Yjs, WebRTC* (Live Demo) (GitHub Repo)   2025

- Built a real-time collaborative document and knowledge platform with **Next.js 16**, **React**, **TipTap 3**, and **Yjs** CRDTs over **WebRTC**, supporting multi-user editing, presence cursors, and conflict-free syncing.
- Designed secure auth and data layers using **NextAuth v5**, Google/GitHub OAuth, email/password login, **Firestore** adapter, **bcrypt** hashing, and Firebase custom tokens for least-privilege client SDK access.
- Implemented AI-assisted editing via **OpenRouter**-backed Next.js API routes for streaming completions, text transforms, and autocomplete wired directly into TipTap commands and toolbar UX.
- Shipped production-ready infra with **Vercel** deployment, a Firestore-backed trending algorithm invoked by **Vercel cron**, and a multi-stage **Docker** pipeline using Next.js standalone output for minimal runtime images.

Netdash – Networking Toolbox | *PWA, WCAG2.2, API Integration* (Live Demo) 2025
- Engineered a production-grade networking toolkit with **15+ tools** for subnetting, **VLSM**, IP conflict detection, and vendor configuration generation.
- Implemented **RTT measurement** via Performance API, WebSocket port scanning, **DNS-over-HTTPS** with TTL-aware caching.
- Developed RFC-compliant **IPv4/IPv6 algorithms**, regex-based parsers for various formats (ARP tables, DHCP leases), and multi-vendor ACL/routing config generators.
- Secured offline-first PWA with **AES-GCM encryption**, PBKDF2 key derivation, and encrypted IndexedDB persistence, meeting **WCAG 2.2 AA**.

SecureBank – CTF Banking App | *XSS Injection, SQLite, cookie-signature, Docker* (GitHub Repo) 2025
- Built a deliberately vulnerable banking simulation for **Capture The Flag** training, focused on SQL injection and privilege escalation.
- Designed exploit paths (raw query interpolation, **single/double URL encoding**, hidden admin portal) to teach secure coding by example.
- Implemented core features: transaction search/filter, feedback system, and admin dashboard with live DB console and security logs.
- Backed by normalized **SQLite** schema and session handling via **cookie-signature**, dockerized with structured challenge docs.

Sunnify Spotify Downloader | *React, Flask, FastAPI, WSGI* (GitHub Repo) 2024
- Built a Spotify playlist downloader (web & desktop) with Python-based APIs and a React frontend.
- Integrated **BeautifulSoup** and **Selenium** for scraping, **FFmpeg** for audio conversion, and **Mutagen** for ID3 tagging.
- Deployed backend on **AWS Lambda** and **Elastic Beanstalk** with **Gunicorn** for scalable performance.

KnifeThrow Arcade Game | *Java, Swing* (GitHub Repo) 2022
- **Java Swing** 2D arcade mini-game (~5,000 LOC) with custom sprites, menus, collision detection, and particle animations.
- Added sound effects, game-over states, and shop mechanics for unlockable knives.

CERTIFICATIONS

Microsoft GH-300: Github Copilot Intermediate Issued: Oct 2025 – Expires: Oct 2027
- Skills: Prompt Engineering, Copilot API Architecture, Secure-Org Policy, Enterprise AI Integration, Workflows

MongoDB Python Developer Path Issued: Feb 2025
- Skills: PyMongo, NoSQL Schema Design, Data Aggregation, MongoDB Query Optimization

GitHub Foundations Issued: Sep 2024 – Expires: Sep 2027
- Skills: Version Control Tools, Git, CI/CD, Repository Management, SAP Workflow

ConnectWise Automate — Certified Enterprise Scripting Architect Issued: Aug 2024
- Skills: RMM, Automation, PowerShell, Windows Server, Enterprise Architecture, ConnectWise Automate

Google IT Automation with Python Issued: Mar 2023
- Skills: Google Cloud Platform, Configuration Management, Python, Version Control Tools, Putty/FileZilla