

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 2022 – Present

EXPERIENCE

Software Engineer Intern – IBM Jan. 2026 – Present
Markham, ON Hybrid

- Full-Stack AI Engineering | watsonx Workshop 🏢

IT Technician – Canada's Wonderland Jun. 2023 – Jan. 2026
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 Symphony/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.

PROJECTS

Axelot | *Next.js 16, TypeScript, Firebase, TipTap 3, Yjs, WebRTC* 🌐 🔄 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 | *Electron, Firebase, WCAG2.2, API Integration* 🌐 🗣️ 2025

- Built a cross-platform **Electron** desktop app (macOS, Windows, Linux) with **Homebrew** distribution, **Firebase Auth**, and real-time project sharing.
- Integrated **Google OAuth**, One-tap login, real-time **Firestore** sync, and role-based permissions (view/edit/admin) for collaborative projects.
- 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, **TCP port scanning**, and **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.

SecureBank – CTF Banking App | *XSS Injection, SQLite, cookie-signature, Docker* 🗣️ 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 | *Next.js, Flask, PyQt5, yt-dlp, Render* 🌐 🗣️ 2024

- Reverse-engineered Spotify embed pages to extract track metadata by parsing `__NEXT_DATA__` JSON without authentication.
- Built a cross-platform **PyQt5** desktop client (macOS, Windows, Linux) using Qt signal/slot (**pyqtSignal**) for thread-safe UI updates and cooperative cancellation via **threading.Event()**.
- Extracted anonymous access tokens from embed pages to call Spotify's internal **spclient** API, supporting playlist expansion for **1000+ track** playlists.
- Implemented a retry decorator with **exponential backoff** for HTTP **429** handling, plus cross-platform **FFmpeg** detection (PyInstaller-bundled, Homebrew, system paths).
- Maintained quality with **43 pytest unit tests** and **GitHub Actions** CI/CD workflows for tests, lint, and builds; shipped as a **Homebrew Cask**.

KnifeThrow Arcade Game | *Java, Swing* 🗣️ 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