

# Sunny Patel

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## TECHNICAL SKILLS

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**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

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### Ontario Tech University

Oshawa, ON

Honours Bachelor of Science in Computer Science — Expected Graduation: April 2026

2022 – Present

## EXPERIENCE

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### 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 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.

### 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

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### 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.

**FinancialFlow** | *Next.js, TypeScript, Tailwind CSS* ([Live Demo](#)) ([GitHub Repo](#)) 2024

- Personal finance management app with real-time income/expense tracking, visual analytics via **Chart.js**, and offline persistence with **IndexedDB**.
- Implemented **React Hooks**, Framer Motion animations, and deployed seamlessly on **Vercel** with CI/CD.

**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

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**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