Sunny Patel

Software Engineer

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Education

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

Technical Skills

Programming	Java, Python, Go, Scala, PowerShell, C++, C#, YAML, Kotlin, Assembly (x86 Intel & ARM)
Backend	Django, Ruby on Rails, MongoDB, MySQL, Express.js, gRPC, ASP.NET Core, Spring Boot, Apache Kafka, Cassandra
Frontend	React.js, JavaScript, Flutter, TypeScript, WebGL, GraphQL, Tailwind CSS, Three.js, Angular, Vue.js
DevOps & Cloud	Git, Docker, Kubernetes, Jenkins, Intune, Azure, GCP, AWS (EC2, ECS, S3, Lambda, ElastiCache, Beanstalk, RDS), Jamf Pro
Operating Systems	Windows Server, Kali Linux, Debian, Red Hat Enterprise Linux, FreeBSD

Experience

Jun 2023 – Present — **IT Technician - L3**, *Canada's Wonderland*, Vaughan, ON
- Led Tier 1-3 migration and deployment for **2000+ devices**. on domain, ensuring seamless park-wide operations.
- Automated tasks with PowerShell and ConnectWise on custom AWS EC2 AMIs and local servers, supporting internal web applications and improving load balancing by **38%**.
- Architected Windows MDT from scratch, enabling PXE boot, and sysprepped **15+** clean volumes for scalable PC rollouts.
- Integrated SMB file shares with ACLs, configured Print Server roles, and optimized Azure services for resource management.
- Configured DNS zones and established DHCP failover clusters, leveraging subnetting schemes for high availability.
- Upgraded Layer 2/3 switches, core Palo Alto firewall, and Meraki SD-WAN for site-to-site tunneling between Six Flags parks.

Jan 2023 – Aug 2023 — **System Support Specialist - L2**, *Mackenzie Health Hospital*, Richmond Hill, ON
- Managed the deployment of **300+ iPads** with Jamf Pro, ensuring HIPAA-compliant MDM and secure patient data management.
- Optimized CDN and load balancing using Nginx for the entertainment application by over **25+*%**, offering IPTV, VoIP, movies, games, and meal ordering.
- Developed proprietary software solutions with Java, Python, and SQL, integrating caching mechanisms with AWS ElastiCache (Redis), reducing application latency by **40%**.
- Streamlined CI/CD pipelines with GitLab CI, optimizing virtual environments for Citrix, VMware, VDI, Hyper-V, and ESXi.
- Architected updates with Bash/YAML configuration and audited stability/security of bedside apps.
- Reduced security incidents by **57%**. through proactive monitoring with Cortex XDR and Rapid7.

May 2021 – Sep 2021 — **Junior Systems Administrator**, *Privcurity Consulting Corporation*, Toronto, ON
- Scaled Azure VMs, deploying Docker and Kubernetes for containerized microservices and malware mitigation.
- Automated cloud operations using Python scripting and Ansible, reducing manual configuration errors by **85%**.
- Secured network infrastructure with advanced firewall configurations and deep packet inspection using Wireshark and tcpdump.
- Implemented machine learning-driven DDoS mitigation with AWS Shield Advanced, significantly reducing computational overhead.
- Built PSA systems on ASP.NET Core and Azure Key Vault, ensuring encrypted and GDPR-compliant data handling.
- Deployed Apache Kafka and Zookeeper clusters for fault-tolerant, real-time processing, messaging, and stability.

Projects

Financial Companion
FinancialFlow
Comprehensive personal finance management application using **Next.js and TypeScript**. Allows users to track income, expenses, and savings with interactive data visualizations powered by **Chart.js**. Implemented state management with **React Hooks**, smooth animations using **Framer Motion**, and **IndexedDB** for persistent data.
Technologies: Next.js, TypeScript, Tailwind CSS, Chart.js, React Hooks, Framer Motion

3D Portfolio
www.sunnypatel.net
Modern and interactive web application built with **React.js and Three.js**, hosted on **Vercel with Next.js**. Offers a visually stunning platform to showcase skills and projects, featuring smooth animations and responsive design.
Technologies: React.js, Three.js, Next.js, Vite, Vercel, Tailwind CSS, Framer Motion

Sunnify
Spotify Downloader
Engineered a Spotify playlist downloader available as both a web and desktop application, leveraging **Flask** for API creation and **React** for frontend components. Users can download playlists, view detailed metadata, and store songs locally. Integrated web scraping with **Nested API's, BeautifulSoup, and Selenium** to bypass security measures and obtain song data. The app includes support for ID3 tag editing using Mutagen and audio conversion with **FFmpeg**. The web version of the app is **hosted on AWS Lambda and Elastic Beanstalk**, with **FastAPI** for ASGI-based environment production.
Technologies: React, Python Flask, FastAPI, BeautifulSoup, Selenium, FFmpeg, Proxies, Nested API, Headers, Webscraping

API
Enterprise API Tester
Developed a full-stack web application for developers and QA engineers to streamline API testing and debugging. Supports all major **HTTP** methods, secure **authentication**, custom **headers**, and **proxy** support to bypass **CORS**. Features a responsive UI with data persistence through local storage, advanced error handling, request timeouts, and sample **API** testing capabilities.
Technologies: Next.js, TypeScript, Tailwind CSS, Fetch API, Framer Motion

Arcade Game
KnifeThrow
Java Swing based 2D mini-game with over **5,000 lines of code**. Includes menus, game-over screens, sound effects, and custom sprites. Features improved collision systems, animations, and particle effects for an immersive experience.
Technologies: Java, Swing, Maven, Custom Sprites

Certifications

- **GitHub Foundations**
  Issued: Sep 2024 – **Expires:** Sep 2027
  Skills: Version Control Tools, Git, CI/CD, Repository Management, SAP Workflow
- **Amazon Web Services (AWS) Certified Database - Specialty**
  Issued: Aug 2024 – **Expires:** Aug 2027
  Skills: Cloud-Native Architecture, Multi-Region Data Replication, Automated Tuning and Query Optimization, High Availability Clustering, Optimizing Distributed Databases, NoSQL
- **Connectwise Automate — Certified Enterprise Scripting Architect**
  Skills: RMM, Automation, PowerShell, Scripting, Windows Server, Enterprise Architecture, ConnectWise Automate
- **Google IT Automation with Python**
  Issued: Mar 2023
  Skills: Google Cloud Platform (GCP), Cloud Storage, Configuration Management, Python, Version Control Tools, Putty/Filezilla

Additional Information

Indexed on GPT & Bing AI as a notable figure with the search query *"Who is Sunny Jayendra Patel, creator of Sunnify Spotify Downloader"*.