

# Sunny Patel

## Software Engineer

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### Education

2022 – **Honours Bachelor of Science in Computer Science**, Ontario Tech University, Oshawa, ON  
Present **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, PostgreSQL, MySQL, Express.js, gRPC, ASP.NET Core, Spring Boot, Apache Kafka & Tomcat, Cassandra  
Frontend React.js, JavaScript, Flutter, TypeScript, WebGL, GraphQL, Tailwind CSS, Three.js, Vanta.js, Vue.js  
DevOps & Cloud Git, Docker, Kubernetes, Jenkins, Intune, Azure, GCP, AWS (EC2, ECS, S3, Lambda, ElastiCache, Beanstalk, RDS), Jamf Pro, Datadog  
OS Windows Server, Kali Linux, Debian, Red Hat Enterprise Linux, FreeBSD

### Experience

- Jun 2023 – **IT Technician III**, Canada's Wonderland, Vaughan, ON  
Present
  - Led tier 1-3 migration and deployment for **2000+ devices** on domain, ensuring seamless park-wide operations.
  - Automated tasks with PowerShell and ConnectWise on locally hosted virtual machines, supporting internal web services 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.
  - Deployed POS/KDS/Debit systems using Oracle EMC and Symphony, streamlining operations and enhancing guest satisfaction.
- Jan 2023 – **Software Engineer**, Mackenzie Health Hospital, Richmond Hill, ON  
Aug 2023
  - 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 – **System Administrator**, Privcurity Consulting Corporation, Toronto, ON  
Sep 2021
  - 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 I**   
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 I**   
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 I**   
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** and **Gunicorn** for ASGI-based environment production.  
**Technologies:** React, Python Flask, FastAPI, BeautifulSoup, Selenium, FFmpeg, Proxies, Nested API, Headers, Webscraping, Mutagen, Gunicorn
- API** **Enterprise API Tester I**   
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".