

## Availability

- **Looking for a New Graduation position in Summer 2026**

## Qualifications, Languages, Skills, and Technologies

- **Security Clearance:** Reliability Status
- **Languages:** Python, Java, C, C++, ARM Assembly, Verilog, BASH, HTML, CSS, JS
- **Software:** Git, Azure ALM, Jira, Confluence,  $\LaTeX$ , GitHub Actions, Jenkins, CI/CD, Testing frameworks
- **Linux:** Debian/Ubuntu, Arch, RHEL/Fedora, Raspberry Pi, WSL

## Employment

Software Developer Student, Co-op	Solace Corporation	Winter 2024, Fall 2024, Summer 2025
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- Engaged in the development cycle through planning, implementing, and testing features in Solace PubSub+ Python, C API, and Java-based APIs.
- Organized and led the migration of repositories to open source the Wireshark SMF Plugin
- Identified, investigated, and fixed bugs within the Python, C, and Java APIs, resolving customer issues and improving the quality of the products.
- Winning team of an internal hackathon

Full-Stack Developer Co-op	LearnExperts	Summer 2024
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- Leveraged GitHub Actions to automate testing workflows that generate reports, increasing visibility of bugs
- Implemented AWS RUM with custom metadata for error logs to improve the debugging process
- Wrote complex end-to-end tests for interactive elements using Cypress, reducing manual test requirements

## Other Relevant Work Experience

- **Jr. Test Analyst, Co-op, Immigration, Refugees, and Citizenship Canada** (Summer 2023)
- **Jr. Software Developer, High School Co-op, NorthStar Utilities** (Winter 2020)

## Education

Ottawa, ON	Carleton University	Fall 2021 - Spring 2026
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- B.Eng in Computer Systems Engineering, Co-op
- 4th Year Standing
- Coursework: Computer Architecture, Real-Time Concurrent Systems, Network Infrastructure, Computer Communications

## Projects

- **AI Raspberry Pi Bamboo Plant.** Uses a water sensor and a local LLaMA instance writing a speech about neglecting to water a plant. Python, Linux
- **Midi Search.** BASH command-line interfaces that searches and downloads MIDI files from archive.org. BASH
- **Albums Database.** Website that uses Spotify API and JSON to parse data of albums with search filters. HTML, CSS, JS, Python, JSON
- **Team Leader, ECOR 1041: Data Management.** Python command-line interface that analyzes and organizes a dataset of books. Python, CSV

More projects can be found at <https://notneelpatel.xyz/portfolio>

## Additional Experience and Awards

- **Hack The Hill II, Ross FPGA Challenge 1st Place:** Used Verilog + Python to program a ROM that plays videos in a custom FPGA.
- **Discover Technata Hacks 2023, Top 3:** Created a data-driven business plan for more sustainable data centres using IoT, 5G, and AI.
- **Deans Honour List (2022):** Maintained a GPA of A
- **Lord Strathcona Medal (2021):** Highest award that can be bestowed upon a Cadet

## Extracurricular Activities

- **Royal Canadian Army Cadets (2015 - 2021):** Demonstrated leadership, disciplinary and organizational skills through the vital positions of Drill Sergeant Major, Drum Major, and Instructor.