

Sarah Poulin

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Professional Summary

Full Stack Application Development student who enjoys solving problems and building reliable systems. I think like an engineer, designing practical solutions through development, debugging, automation, cloud, and scripting. Excited to apply my skills to meaningful technical challenges and contribute wherever I can create impact.

Professional Experience

2014 – PRESENT

Self Employed | Freelance Cybersecurity Consultant

Incident Response & Remediation Highlights:

- Remediated ransomware infection and recovered all files via Volume Shadow Copy Service (VSS).
- Identified and removed malicious PHP code affecting a client website's database and redirect behavior. Investigated root cause and implemented preventive security measures.

2009 – PRESENT

Self Employed | Childcare & Homeschool Coordinator

- Deployed a full Moodle LMS instance on Oracle Cloud and update with ongoing learning content. (2022)
- Manage a home NAS (Odroid HC2/HC4, Debian), ensuring secure, automated backups via NextCloud + Nginx Proxy Manager. (2019)

2008 – PRESENT

Covenant Reformed Presbyterian Church | Technical Advisor (Volunteer) | Halifax, NS

- Oversee all technical operations including livestreaming, audio/video systems, storage, and service automation.
- Deploy and maintain self-hosted servers and applications using Linux, Docker, and cloud resources. (2019)
- Build automated workflows using Python and Bash to streamline livestream scheduling, video processing, and content uploads.
- Implement secure remote-access solutions and backup systems to ensure continuous service availability.
- Manage long-term media storage, archival systems, and metadata workflows.

2014 – 2018

UserTesting | User Experience Tester

- Evaluated website and mobile app usability through structured test scenarios.
- Verbally documented testing process for developer review.

- Recognized as a 5-star rated tester for clarity and actionable feedback.

2007 – 2009

Crombie REIT | Security Officer | Halifax, NS

- Awarded Certificate of Merit by Halifax Regional Police for direct involvement in the arrest of a bank robber.
- Conducted investigations involving theft, property damage, and emergency events; produced detailed incident reports.
- Trained in tactical procedures, emergency response, and professional communication.

Project Highlights

(Full technical write-ups available at sarahpoulin.ca)

Automated Video Upload Pipeline: Python + Bash scripts using APIs and inotify-tools to automatically upload recordings, rename files, update metadata, and archive content.

Multi-Platform Livestream System: Deployed a re-streaming server, Icecast audio server, and automated YouTube scheduling system using APIs and cron.

Secure Self-Hosted Infrastructure: Deployed Moodle LMS, NextCloud, Dockerized apps, MeshCentral, and Asterisk PBX on self-hosted hardware and cloud instances.

Modifiable Rich Content Website: Next.js + Prisma + PostgreSQL stack website in which client can modify text and upload project photos.

Technical Skills

Languages & Scripting: Python, JavaScript, TypeScript, Bash

Web & App Development: HTML, CSS, Node.js, REST APIs

Systems & DevOps: Linux (Debian), Docker, Virtual Machines, Nginx, Asterisk PBX

Cloud & Storage: Oracle Cloud, NextCloud, NAS (Odroid HC2/HC4), Nginx Proxy Manager

Automation: Cron, API integrations, inotify-tools, Puppeteer

Networking & Security: Troubleshooting, secure authentication, 2FA (Authelia), malware cleanup

Tools: Git, OBS, Moodle (LMS), Icecast, MeshCentral

Awards & Achievements

- 1st Place, Agentic AI Hackathon at Volta (2024)
- 1st Place, RBC HubHacks at RBC Halifax Innovation Hub (2025)
- 2nd Place, NSCC IT Campus Hackathon (2025)
- Certificate of Merit, Halifax Regional Police – assisted arrest of bank robber (2008)

Education

2025 – 2026

Full Stack Application Development | Nova Scotia Community College | Halifax, NS

- Coursework in programming, front/back-end development, databases, UX, testing, and security.
- Grades in first term 100% (x3), 99%, and 94%.

2025 – 2026, 2004 – 2007

Bachelor of Arts, Major in Music | Dalhousie University | Halifax, NS

- A+ grades in Intro to Information Security, Intro to Web Development, Intro to Computer Systems, and Python for Business.
- Dean's List (2025/2026 Fall and Winter terms) with GPAs of 4.2 and 4.3.
- Completed 3.5 years toward Bachelor of Music (Guitar + Education concentration).

Certifications

- Microsoft Certified: Azure Fundamentals (AZ-900) (2024)
- ShiftKey Academy: Cybersecurity Certificate | Data Analytics with Python (2024)

1999–2004

Niagara District Secondary School | Niagara-on-the-Lake, ON

- Ontario Scholar
- Diploma