

ASHAR S. AHMED

Software/Security Developer | Canadian & U.S. Citizen
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Technical Skills

Security Operations / Detection: SIEM alert triage, EDR investigation, log correlation, alert tuning, detection logic (SQL, regex), IR playbooks, threat modeling

Vulnerability Management: CVE triage, validation/prioritization, remediation coordination, evidence collection, compliance tracking

IAM / Endpoint Security: MFA, macOS/Windows hardening, FileVault, patch compliance, MDM policy enforcement, DNS filtering

Cloud / IaC: AWS (IAM, S3, DynamoDB, CloudWatch, CloudTrail), Azure (Defender for Cloud), Terraform, Terragrunt, Checkov, Docker, Kubernetes

Scripting / Automation: Python, PowerShell, Bash, JavaScript/TypeScript

AI / LLM: LLM application development (Claude/OpenAI APIs), prompt engineering, agentic automation, LLM/prompt-injection security

Compliance: NIST CSF, ISO 27001-aligned controls, PHIPA-oriented controls, audit documentation, control evidence workflows

Professional Experience

Cyber Security Advisor

Jan. 2023 – Present

Dr. Shariq Mumtaz Medicine Professional Corporation

- **Built and own the full security & privacy program** end-to-end for a PHIPA-regulated healthcare practice — risk register, remediation SLAs, prioritized roadmap, and audit-ready KPI reporting — a scope typically divided across a dedicated security team
- Centralized identity, endpoint, and network logging where none existed and built alerting on anomalous access and sign-ins, cutting **mean-time-to-detect from days to under an hour**
- Standardized every endpoint on **MFA, full-disk encryption (FileVault/BitLocker), EDR, DNS filtering, and enforced patching**, reaching **100% policy compliance** with zero unmanaged devices
- Implemented and **restore-tested 3-2-1 backups** to cut ransomware recovery risk; authored PHIPA-aligned policies, a breach-response plan, and audit evidence, and ran security reviews of EMR/IT vendors handling PHI

Software Developer, Government of Canada

Feb. 2021 – Jan. 2022

Innovation, Science & Economic Development Canada (ISED)

Feb. – Oct. 2021

- Designed passive request validation that eliminated bot-driven abuse on public form endpoints, removing user friction while increasing detection coverage
- Produced security runbooks adopted org-wide across delivery teams
- Awarded the **Directors General Award of Merit** for delivery impact on national spectrum operations

Canadian Digital Service (CDS)

Oct. 2021 – Jan. 2022

- Engineered secure AWS infrastructure (IAM, S3, DynamoDB, CloudWatch) via Terraform/Terragrunt; enforced policy-as-code scanning with Checkov
- Extended the passive anti-abuse validation across the platform's form endpoints, sustaining low-friction protection and detection coverage at scale
- Implemented CI/CD quality gates and automated testing, raising code coverage from ~20% to **85%**; reduced client-reported data incidents from 4-5 to 1-2 per cycle

Projects & Publications

Ravelin: Vulnerability SLA & Compliance Tracker

getravelin.xyz

- Built a vendor-neutral platform that ingests findings from Dependabot, Snyk, and Trivy, assigns severity-based remediation SLAs, and tracks breaches with audit trails and compliance reporting
- *Stack:* C#, .NET 10, Blazor, Azure, Azure DevOps, Docker, Terraform, SQL Server

QR-CLI | TypeScript, Node.js, Commander, qrcode

qr-cli.dev

- Built and published a cross-platform CLI that generates QR codes as ASCII art with PNG export, works fully offline, released under MIT on npm and GitHub

The Cyber Centre and Technologies: A Meta-Analysis | Accepted, Canadian Military Journal (forthcoming)

- Authored an accepted meta-analysis on the Canadian Centre for Cyber Security, synthesizing open-source sources on threat intelligence operations, detection capabilities, and critical infrastructure protection

Education

Western Governors University

Master of Science (M.S.), Cybersecurity & Information Assurance

Dalhousie University

Bachelor of Computer Science (BCompSci)

Certifications

Certified Information Systems Security Professional (CISSP), 2026 | Systems Security Certified Professional (SSCP), 2023 | AWS Certified Solutions Architect & Developer – Associate, 2022