

Ashar S. Ahmed

Software Developer | Cyber Security Advisor

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TECHNICAL SKILLS

Software Development: Python (Flask), JavaScript/TypeScript (Node.js), PowerShell, Bash, REST APIs, automated testing

Cloud & DevOps: AWS (IAM, S3, DynamoDB, CloudWatch, CloudWatch Logs, CloudTrail), Docker, Kubernetes, Terraform, Terragrunt, Checkov, CI/CD

Security Engineering (AppDev Focus): secure SDLC, threat modeling, IaC guardrails, vulnerability triage/validation & remediation coordination, audit-ready evidence

Data: Oracle Database, SQL, PL/SQL; DynamoDB

PROFESSIONAL EXPERIENCE

Cyber Security Advisor, Dr. Shariq Mumtaz Medicine Professional Corporation Jan. 2023 – Present

- Owned security end-to-end as the sole security owner; built the program from scratch (risk register, remediation SLAs, KPI reporting, prioritized roadmap)
- Built a query-driven triage workflow by instrumenting identity/endpoint/network telemetry and correlating signals across tools; reduced MTTD from days to under 1 hour
- Standardized and automated endpoint baselines across macOS/Windows (MFA, FileVault, MDM enforcement, patch cadences), reducing configuration drift and manual maintenance
- Operationalized incident response and vulnerability closure with external IT vendors; authored runbooks and audit-ready evidence mapped to HIPAA-oriented controls

Software Developer (1 Year Term Appointment), Government of Canada Feb. 2021 – Jan. 2022

- Built Python/Flask bot-abuse detection controls, analyzing request patterns and tuning thresholds to reduce false positives while maintaining detection accuracy
- Engineered AWS infrastructure (IAM, S3, DynamoDB, CloudWatch) via Terraform/Terragrunt; enforced policy-as-code scanning with Checkov
- Refactored a monolithic application into service-based components, reducing incident blast radius and improving production reliability
- Implemented CI quality gates and automated testing, increasing code coverage from ~20% to 85% and reducing production defect rates
- Produced security runbooks and incident-support documentation adopted org-wide; awarded the **Directors' General Award of Merit** for delivery impact on national spectrum operations

Software Developer Intern, National Research Council of Canada (NRC) Sept. 2020 – Dec. 2020

- Developed full-stack Oracle Database applications powering research data pipelines across multiple NRC divisions
- Engineered PL/SQL stored procedures and SQL-based automation to replace manual workflows, eliminating ~10 hrs/week of manual processing

PROJECTS & PUBLICATIONS

QR-CLI | Open-Source Developer Tool | qr-cli.dev

- Built and published a cross-platform CLI tool (Node.js) generating QR codes as ASCII art with PNG export; fully offline, released under MIT license on npm/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 (Cyber Centre), synthesizing open-source sources on threat intelligence operations, detection capabilities, and critical infrastructure protection

EDUCATION

Master of Science (M.S.) Cybersecurity & Information Assurance | Western Governors University

Awarded 2024

Bachelor of Computer Science (BCompSci) | Dalhousie University

Awarded 2024

CERTIFICATIONS

Systems Security Certified Professional (SSCP)

Awarded 2023

AWS Certified Solutions Architect & Developer - Associate

Awarded 2022

Associate of ISC2 (CISSP Exam Passed)

Awarded 2025