Shohrab Hossen Niaz

MSc candidate, Cyber Security & Forensics · Prospective PhD applicant in Software Engineering Security

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RESEARCH INTERESTS

LLM-driven security repair of Infrastructure-as-Code (Terraform, Helm) and Kubernetes configurations; verification of automated repairs beyond static-analysis pass rates (deployability and runtime behaviour); DevSecOps and software supply-chain security; empirical software engineering for cloud-native systems.

EDUCATION

MSc Cyber Security & Forensics, University of the Sunshine Coast, Australia Nov 2025 – May 2027 (expected)

- Dissertation: JML (Joiners, Movers, Leavers) identity lifecycle automation for Microsoft Entra ID (PowerShell).

BSc Computer Science & Engineering, North South University, Bangladesh 2017 – 2021

- GPA 3.71 / 4.00

RESEARCH PROJECTS & WORK IN PROGRESS

Do Scanner-Passing LLM Security Fixes Still Deploy? An Empirical Study on Terraform and Kubernetes In preparation

- Planned study: apply LLM-generated repairs to misconfigured Terraform and Kubernetes artefacts, then check whether fixes that pass static analysers (e.g., Checkov, KICS, Trivy) still validate, plan and deploy in a sandboxed cluster/cloud environment. No results yet.
- Builds on LLMSecConfig (Ye, Le & Babar, MSR 2025). Discussed with Dr Triet H. M. Le and Prof M. Ali Babar (CREST, Adelaide University), 22 Oct 2026. Target venue: EASE 2027.

Research proposal: Verified, Cross-Layer LLM Repair of IaC Security Misconfigurations Draft v2, Oct 2026

- Proposes repairing misconfigurations at their root-cause layer (Terraform → Helm values → rendered manifest) with runtime verification.

SELECTED OPEN-SOURCE REPOSITORIES (GITHUB.COM/SHOHRABNIAZ)

- **devsecops-pipeline:** DevSecOps CI pipeline integrating Semgrep, Checkov, Trivy, SBOM generation and compliance reports (Python).
- **aks-terraform-module:** Reusable Terraform module for provisioning Azure Kubernetes Service clusters.
- **ai-incident-copilot:** CLI for Kubernetes incident root-cause analysis using logs, events and LLM analysis (Python).

INDUSTRY EXPERIENCE (CONDENSED)

6+ years in DevOps and cloud engineering. Several engagements were concurrent remote contracts, labelled below.

Senior DevOps Engineer (concurrent remote contract), Askturing.ai, USA Apr 2025 – Present

- Migrated 15+ services from Docker Swarm to AKS (5 clusters, ~240 nodes); Terraform IaC for multi-environment deployments; automated vulnerability scanning and secrets management in pipelines.

DevOps Engineer, Genex Infosys (engaged via Grameenphone), Bangladesh Dec 2024 – Sep 2025

- CI/CD (Jenkins, GitLab) and automation for telecom-scale systems; 24/7 incident response. Overlapped with Askturing.ai contract.

Senior DevOps Engineer, Enosis Solutions, Bangladesh Feb 2024 – Nov 2024

- Migration of monoliths to Kubernetes microservices; standardised CI/CD; mentored junior engineers.

Senior DevOps Engineer (concurrent remote contract), MarginEdge, USA Jan 2024 – Mar 2024

- Short-term contract: monitoring, containerisation and DevSecOps adoption.

Senior DevOps Engineer (independent contractor, concurrent), UnitedHealth Group, USA Aug 2022 – May 2024

- Azure-first AKS infrastructure under HIPAA-aligned controls; Key Vault secrets management and Azure Policy compliance guardrails. Held alongside BJIT, Enosis and MarginEdge roles.

DevOps Engineer, BJIT Group, Bangladesh Nov 2021 – Dec 2023

- Multi-cloud (AWS, Azure, GCP) environments across 7+ client projects; Terraform/Ansible provisioning.

Software Engineer, Adipster Tech Ltd, Hong Kong Apr 2020 – May 2021

- Full-stack web development.

CERTIFICATIONS

- Certified Kubernetes Administrator (CKA), CNCF / The Linux Foundation
- Microsoft Certified: Azure Administrator Associate (AZ-104), Microsoft
- AWS Certified Cloud Practitioner, Amazon Web Services

HONOURS

- 3rd place, Capstone Innovation Challenge Showcase, North South University
- Completed BMA 77 Long Course, Bangladesh Military Academy (commissioned Lieutenant)

REFEREES

Available on request.