

# EKONKAR SINGH

## Enterprise Cloud Identity & Compliance Engineer

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### EXPERIENCE

#### Support Analyst — Security & Compliance

Jul 2025 – Present

Shared Services Canada — Solution Design (ITBLAS) | Thunder Bay, ON

- Optimized platform performance resulting in **~70% script execution speedup** and **~35% cloud cost reduction**
- Architected PowerShell automation for **multi-tenant identity mapping**, validation, and compliance auditing
- Engineered horizontal scalability for expansion from 20 to a **200-tenant footprint**
- Modernized infrastructure by migrating **SQL workloads** from legacy VMs to managed instances
- Led cross-tenant identity migrations using **Quest On Demand** and **ShareGate**
- Developed Azure governance policies aligned with **TBS Guardrails** and **ITSG-33** frameworks

#### Systems Integration Analyst (Contract)

Aug 2025 – Mar 2026

Lakehead University – Conference Services | Thunder Bay, ON

- Led end-to-end migration of PSM system to Tripleseat platform as **Project Lead**
- Managed vendor evaluation, contract negotiation, and stakeholder coordination
- Designed data architecture and validated migration templates for legacy data export
- Built automation pipelines using Python and Bash for system monitoring and integration

#### IT Analyst (Co-op)

Jul 2023 – May 2024

Shared Services Canada | Thunder Bay, ON

- Supported MFA onboarding and identity verification across enterprise deployments
- Assisted with endpoint configuration hardening for Windows 11
- Performed access control and configuration compliance reviews

#### Conference Technical Assistant

Jan 2023 – Jul 2024

Lakehead University – Conference Services | Thunder Bay, ON

- Managed audio-visual systems, live-streaming, and networking for **multi-day hybrid events**
- Provided technical support ensuring zero downtime across multiple venues

### PROJECTS

#### GCComply — Multi-Tenant Identity Compliance

PowerShell, PostgreSQL

- Production compliance platform mapping **ITSG-33, NIST, and Zero Trust** controls
- Automated identity posture assessment across **20+ tenants**, scaling to 200
- Built with PowerShell, OPA policy engine, and Power BI dashboards

#### CogSec — Cognitive Threat Modeling

Gemini API, Python

- Gemini-powered forensics modeling **human cognitive overload** as a vulnerability
- Reconstructs security failures caused by decision fatigue and alert overload

#### SSL-IDS — Self-Supervised Intrusion Detection

Python, PyTorch

- Contrastive learning system detecting **zero-day network attacks** without labels
- Uses InfoNCE loss and geometric anomaly detection on hypersphere embeddings

#### Driftlite — Lightweight AI Drift Monitoring

Research Paper

- Detects ML behavior drift using **interpretable statistical signals** (PSI)
- Zero-dependency monitoring for production AI systems with automated reporting

### TECHNICAL SKILLS

**Identity & Access:** Microsoft Entra ID, Azure AD, Conditional Access, MFA, IAM, Identity Governance

**Cloud-Native Tools:** Microsoft Azure, M365 (E3/E5), Microsoft Sentinel, Intune, Azure Monitor

**DevOps & Automation:** PowerShell Scripting, Python (ML/Automation), Bash, Policy-as-Code (OPA), Git

**Security Compliance:** ITSG-33, NIST 800-53, Zero Trust Architecture, CIS Benchmarks, TBS Guardrails

**Systems & Data:** Windows Server, Linux (RHEL/Debian), PostgreSQL, SQL, Active Directory

**Forensics & AI:** Gemini API, PyTorch, Scikit-Learn, Network Intrusion Detection (IDS)

### EDUCATION

#### Bachelor of Science in Computer Science (BSc)

2021 – 2025

Lakehead University — Thunder Bay, ON