

EKONKAR SINGH

Enterprise Cloud Identity & Compliance Engineer

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EXPERIENCE

Support Analyst — Security & Compliance

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

Jul 2025 – Present

- 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)

Lakehead University – Conference Services | Thunder Bay, ON

Aug 2025 – Mar 2026

- 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)

Shared Services Canada | Thunder Bay, ON

Jul 2023 – May 2024

- 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

Lakehead University – Conference Services | Thunder Bay, ON

Jan 2023 – Jul 2024

- 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

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

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

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)

Lakehead University — Thunder Bay, ON

2021 – 2025