

SAKSHAM GHIMIRE



+977 9841076062



gsakshyam3@gmail.com



linkedin.com/in/sakshyam-ghimire



sakshamghimire.com.np



orcid.org/0009-0000-3362-6876

Experience

Senior Software Engineer, Leapfrog

📅 Mar 2024 - Present

- Developed a complete ERP system, integrating third-party tools like Odoo and AutoCAD for extended functionality
- Engineered a robust ETL pipeline for healthcare data using Airflow, automating data ingestion and processing
- Optimized data retrieval performance by designing and implementing database partitioning and indexing strategies in PostgreSQL
- Enhanced the application's user experience by developing an intuitive frontend
- Led the project from conception to deployment, providing technical guidance to junior developers and leveraging deep business domain knowledge to deliver effective solutions

Software Engineer, Tekvortex

📅 Feb 2023 - Mar 2024

- Built a content curation platform that identifies and highlights relevant content, providing analysts with real-time, actionable intelligence
- Optimized search functionality by implementing custom tokenizers for different indexes in Elasticsearch, significantly improving search relevance and efficiency for various user queries.
- Engineered a logging pipeline that stores user behavioral data in Elasticsearch, enabling the creation of dashboards that track user engagement, page visits, and link interactions for in-depth analytics.
- Implemented a Single Sign-On (SSO) solution with Keycloak to centralize identity management and provide seamless access to multiple applications
- Integrated Behavior-Driven Development (BDD) into the development workflow, significantly improving code reliability and ensuring features met business requirements

Software Engineer, Vairav Technology

📅 Dec 2020 - Feb 2023

- Developed a correlation engine in Golang with a pub-sub and gRPC architecture, allowing seamless integration with systems like Kafka for flexible rule-based threat detection
- Built a threat intelligence engine that validates ingested logs against open-source (like MISP) and custom databases, providing real-time threat detection
- Engineered a complete SIEM pipeline using Logstash to ingest logs into Elasticsearch, enabling centralized log analysis
- Conducted cybersecurity workshops and led training sessions on Python and Golang scripting for SOC analysts

Profile

Driven and detail-oriented Software Engineer with experience in SIEM systems, ERP, and ETL pipelines. Proven track record of leading projects, mentoring junior developers, and consistently delivering secure, high-impact solutions. Actively engaged in sharing technical insights through online sources, demonstrating a commitment to continuous learning and knowledge-sharing.

Projects

Workplace Management System

🔗 GitHub

Developed an employee monitoring system with features including application and idle-time tracking, data visualization, and basic network security.

Jontology

🔗 GitHub

Developed a minimal JSON rule engine that uses propositional algebraic logic for complex AND/OR operations and supports aggregation.

Software Architecture

🔗 GitHub

A repository that contains the bare minimum of architectural and computational models implemented on various personal projects.

Education

BSc. (Hons) in Computer Networking and Cyber Security, Islington College

Skills

- **Languages:** Python, Golang, JavaScript, SQL
- **Frameworks and Libraries:** Django, Flask, React, Nest
- **Databases:** PostgreSQL, MySQL, OpenSearch, MongoDB
- **Cloud & Tools:** AWS, Airflow, Kafka, Keycloak, Logstash
- **Architectures & Practices:** Event-driven systems, Pub/Sub, Change Data Capture (CDC), Distributed logging, SIEM, SOAR, Test Driven Development(TDD)

Publications

- Adaptive Rule Induction through Unsupervised Clustering and Label Propagation (pre-print)