

AKSHIT KHANDELWAL

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SUMMARY

Backend Engineer with **2+ years of experience building scalable backend systems using Java, Python, Spring Boot, and REST APIs**. Scaled a **multi-tenant vulnerability management platform from POC to production**, serving **3 enterprise clients and 120+ servers**, reducing unresolved vulnerabilities from **30 to 5 (83% improvement)** through automated notification and escalation workflows. Experienced in **distributed systems, database design, and secure integrations (LDAP, PKI encryption)** with deployments across **AWS and on-prem environments**.

SKILLS

Languages: Java, Python, SQL, JavaScript

Backend: Spring Boot, Angular, Flask, Django, REST APIs

Data & Cloud: MySQL, PostgreSQL, AWS(S3, EC2,ECS), Docker, Linux

Messaging & Integration: Email Automation, O365 Integration, Nessus, API Integrations

Security & Identity: OAuth2, Cloud IDP, PKI Encryption, LDAP

Architecture: Microservices, SDLC, Design Patterns, Scalable Backend Design

Other: Angular,Git, Web Scraping, Agile

EXPERIENCE

Volkswagen Group Digital Solutions, Gurugram: Software Engineer

August 2023 – Present

- Scaled a **Vulnerability Management SaaS Platform** from POC to production, supporting **3 enterprise clients, 120+ monitored servers**, and **thousands of vulnerability scans** across distributed environments.
- Designed and implemented **multi-tenant database architecture**, enabling secure, scalable onboarding of multiple clients.
- Built reusable service components for **Cloud IDP authentication, email notifications with reminders & escalation, and large file uploads (100MB)**.
- Implemented **Microsoft O365 email integration with threaded communication**, enabling automated reminders and escalation workflows that reduced unresolved vulnerable servers from **30 → 5 out of 120 (83% improvement)**.
- Strengthened secure communications by integrating **LDAP-based certificate retrieval** and implementing **PKI email encryption**, addressing O365 limitations for certificate-based encrypted emails.
- Optimized backend performance by writing and tuning **complex SQL queries**, improving response times for large datasets by **40%**.
- Owned **end-to-end deployments** across AWS and on-premise servers, ensuring high availability and compliance with client infra policies.
- Developed **rapid prototypes** to validate new features and architectural decisions before rollout.
- Collaborated on **ML classification pipelines**, contributing to model accuracy of **94%** through optimized data workflows and backend logic.
- Led the team as **sole developer without tech leads**, taking responsibility for **architecture, mentoring, code reviews, and applying design patterns**.

DataWeave, Bengaluru,: Data Engineer Intern

January 2023 – June 2023

- Designed and implemented **scalable web scraping pipelines** using Python & Selenium to extract structured and unstructured data from dynamic websites and mobile apps in real time.
- Optimized scraping orchestration with **distributed task scheduling**, reducing project delivery timelines by **20%**.
- Developed **data pipelines** integrating SQL databases and AWS S3 for secure storage, retrieval, and downstream analytics, improving reporting efficiency.
- Automated **data validation & quality checks**, boosting team productivity by **15%** and reducing manual rework.

EDUCATION

Bachelor of Technology (B.Tech), Computer Science

NIIT University, Alwar, Rajasthan, India

August 2019 - June 2023

8.71/10 GPA