Muhammad Ali Nasir

Java Backend Developer | Software Engineer

Karachi, Pakistan | +92 337 2510043 | alinasir.cse@gmail.com | linkedin.com/in/ali-nasir7 | github.com/ali-nasir7

PROFESSIONAL SUMMARY

Backend Developer with hands-on experience developing and deploying enterprise web applications during a Software Engineering internship at Sui Southern Gas Company (SSGC). Experienced in building secure, scalable backend solutions using Java, Spring Boot, Spring Security, REST APIs, relational databases, and modern DevOps practices. Passionate about solving real-world business problems through clean architecture, API-driven development, and enterprise software engineering while continuously expanding expertise in distributed systems, cloud technologies, and AI-powered applications.

TECHNICAL SKILLS

Programming Languages: Java 21, SQL, JavaScript

Backend Development: Spring Boot, Spring Security, Spring Data JPA, Hibernate, REST API Development, Authentication & Authorization, JWT Authentication, Role-Based Access Control (RBAC), Server-Side Pagination, Microservices, MVC Architecture

Databases: PostgreSQL, MySQL, Oracle Database, Redis

Messaging & Event Streaming: Apache Kafka

DevOps & Deployment: Docker, GitHub Actions (CI/CD), Maven, Git, VPS Deployment

API & Monitoring: Swagger / OpenAPI

Software Engineering: Object-Oriented Programming (OOP), Data Structures & Algorithms, Database Design, Clean Architecture, SOLID Principles

PROFESSIONAL EXPERIENCE

Software Engineering Intern

Aug 2025 – Sep 2025

Sui Southern Gas Company (SSGC), Karachi, Pakistan

- Developed the **Field Activity Reporting System (FARS)**, an internal web application that streamlined access to operational field activity data, reducing dependence on manually written SQL queries for recurring information requests.
- Implemented server-side pagination and optimized data retrieval to efficiently handle large datasets while improving application responsiveness.
- Developed hierarchical filtering capabilities across regions, units, and sub-units, enabling management to quickly retrieve operational information.
- Delivered the application for internal deployment at SSGC, where it is actively used by supervisors and management for field activity tracking and reporting.

PROJECTS

NexusERP Cloud

Multi-Tenant Enterprise ERP SaaS Platform

Tech Stack: Java 21, Spring Boot 3, Spring Security, Spring Data JPA, Hibernate, PostgreSQL, Redis, Docker, GitHub Actions, Swagger

- Designed a comprehensive role-based access control (RBAC) system supporting organization administrators, HR, finance, inventory, procurement, sales, managers, and employees.
- Developed modular enterprise services for Organization Management, Inventory, Procurement, Sales, Human Resources, Finance, Employee Management, and Audit Logging using Spring Boot.
- Containerized the platform with Docker and automated build workflows using GitHub Actions CI/CD.
- Documented REST APIs using Swagger while following Clean Architecture, SOLID principles, and RESTful API best practices.

PipelineIQ

AI-Powered CI/CD Failure Analysis Platform

Tech Stack: Java 21, Spring Boot, Spring Security, Apache Kafka, PostgreSQL, Redis, Docker, GitHub Actions, Swagger, OpenAI API

- Designed and developed an event-driven platform that automates CI/CD failure analysis using Apache Kafka for asynchronous service communication.
- Integrated AI-powered log analysis to identify root causes, classify build failures, estimate severity, and recommend actionable resolutions.
- Built secure REST APIs with JWT authentication and role-based access control (RBAC) to manage application access.
- Automated build workflows using GitHub Actions and containerized application services with Docker
- Published interactive API documentation using Swagger/OpenAPI to simplify API testing and integration.

Abroad School Management System

School Administration & Student Management Platform

Tech Stack: Java, Spring Boot, Spring Security, MySQL, REST APIs, VPS Deployment

- Developed and deployed a web-based school management platform supporting admissions, fee management, student records, and staff administration.
- Designed backend services and REST APIs to manage core academic and administrative workflows.
- Implemented secure authentication and role-based access control to protect sensitive institutional data.
- Deployed the application on a VPS server for real-time operational use by the school.

EDUCATION

Bachelor of Science in Computer Science (BSCS) Jan 2023 – Jan 2027

Hamdard University, Karachi, Pakistan

CGPA: 3.10 / 4.00 | Current Status: 7- semester(Final year)

Pre-Engineering Jan 2021 – Jan 2023

Govt. Dehli College, Karachi, Pakistan

CERTIFICATIONS

Cloud Computing Certification Sep 2025 – Nov 2025

NED University of Engineering & Technology