Naman Sharma

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Experience

Independent Contracting | Gurugram
AI Solutions Architect & Full-Stack Engineer | 11/2024 - Present

- Currently building a scalable user authentication system leveraging AWS Cognito Identity Provider with Spring Security OAuth2 Resource Server, implementing environment-specific credential management, dynamic configuration, and comprehensive error handling for seamless development-to-production workflows.
- Developing enterprise-grade user registration and management platform with AWS Cognito integration, featuring automated user lifecycle management, role-based access control, and robust validation pipelines that support both development mocking and production AWS services.
- Delivered end-to-end AI and software solutions for multiple contractual clients across EdTech and industrial analytics domains, combining full-stack engineering with LLM-driven product innovation.
- Built an AI-powered quiz assistant platform for an EdTech client, enabling personalized learning through dynamic question generation and a progressive hinting system. Developed a modern React frontend with glassmorphism UI/UX and a microservice-based Node.js/Express backend.
- Integrated model-agnostic LLM support (OpenAI, Anthropic, Ollama) via a unified API layer, allowing flexible deployment across local and cloud environments while maintaining high performance and cost efficiency.
- Designed context-aware content validation mechanisms to prevent AI leakage in hints, ensuring educational integrity and adaptive learning quality.
- Developed a secure, production-grade text-to-SQL engine for an industrial data intelligence client, translating natural language queries into optimized PostgreSQL statements using AWS Bedrock (Claude) and Ollama, achieving 95%+ accuracy.
- Engineered robust data pipelines processing 100K+ industrial sensor and operational records using Polars, with automated ETL workflows, real-time data sanitization, 99.9% validation accuracy, and full data lineage tracking for auditability.
- Delivered DPDP-compliant FastAPI services with structured logging, rigorous error handling, automated schema migrations, and secure access controls—reducing complex data analysis time by 90% for operational and planning teams.
- Architected scalable AWS infrastructure with S3, Aurora PostgreSQL, Lambda, and Redis caching, along with CI/CD pipelines for dev, staging, and production environments—supporting 1000+ concurrent users and sub-500ms query latencies.

Fiserv | Gurugram & Pune
Tech Lead | 10/2015 - 11/2024
Roles Progression: Application Developer → Tech Lead (2015 – 2024)

As a Specialist/Tech Lead (2020–2024)

- Architected adapter layer APIs using Domain-Driven Design and Hexagonal Architecture principles to integrate legacy production application with new enterprise platform, preserving critical business functionality while enabling real-time fraud detection capabilities. This strategic architectural approach created clean domain boundaries that reduced integration complexity and decreased critical business operation response times from 2+ weeks to near real-time resolution.
- Led end-to-end modernization initiatives, managing complex Java platform migrations (JDK 8 to 17), resulting in significantly improved system performance, scalability, and maintainability.
- Acted as designated Security Champion, coordinating cross-functional teams to swiftly address critical vulnerabilities such as Log4j, reducing exposure time to under 24 hours and significantly strengthening enterprise-wide application security posture.
- Engineered robust CI/CD pipelines coupled with automated vulnerability tracking solutions, slashing deployment timelines from days to hours and proactively mitigating thousands of critical vulnerabilities.
- Spearheaded strategic migrations from legacy Oracle infrastructure to cloud-native PostgreSQL and AWS, delivering substantial improvements in application performance, flexibility, and operational reliability.
- Championed Agile (SAFe) transformations, significantly boosting team productivity by 32% and ensuring rigorous adherence to security standards across cross-functional teams tackling complex technical challenges.
- Mentored and led engineering teams, driving daily stand-ups, rigorous code reviews, and adoption of best practices.

Earlier Responsibilities as Application Developer/Sr. Application Developer (2015–2019)

- Developed adapter modules enabling API integrations, maintaining backward compatibility, and facilitating dynamic transformations and plug-in/plug-out capabilities with MasterCard and Visa APIs.
- Designed dual-DAO layers for seamless database transition (Oracle to PostgreSQL), dynamically selecting libraries at runtime, enhancing application adaptability and scalability.
- Dramatically improved application performance by redesigning server-side rendering frameworks and converting database calls to optimized JSON file reads, reducing average page load times from 3.2 seconds to 1.5 seconds (53% improvement) and increasing user satisfaction scores by 47% in post-implementation surveys.
- Embedded security within CI/CD through shift-left and DevSecOps methodologies, integrating automated scanning with Fortify, WebInspect, and SonarQube.
- Led critical security remediation initiative following first-ever comprehensive scan of legacy codebase (part of company-wide security posture improvement mandate), systematically addressing and resolving over 11,000 identified vulnerabilities across multiple severity levels, resulting in 98% reduction in critical/high issues and formal security compliance certification.

Infosys | Pune
Senior Systems Engineer | 08/2012 - 10/2015
Roles Progression: Systems Engineer → Senior Systems Engineer (2012 - 2015)

- Coded multiple services for fetching data from mainframe systems by using Spring integration.
- Worked on implementing reporting for the application using Apache Chemistry.
- Coded multiple spring batch jobs which run overnight to ETL the files received from the Mainframe to the database.
- Implemented quality tools such as checkstyle, pmd, and sonar for each build cycle.
- Designed the pom structures for all the project modules involved and help in creating simple solutions for workspace setup.
- Improving the time in getting the code setup done with minimal time for new developers and getting them familiar with the framework using key focus methods and documents.
- Followed coding and documentation standards with extensive use of Confluence and Jira
- Involved in peer code reviews and performed integration testing of the modules.
- Responsible for Delivery, User Acceptance Test issues for the application.

Tech Stack: Java 7 | Spring batch 3.x | Spring Core 3.x | Oracle 12.1 | Shell

Skills

Java, Python, GitLab, Jenkins, Shell Scripting, IAM (Identity & Access Management), AWS, Linux, PostgreSQL, Oracle, Redis, Wiz, System Design, MSA

Certificates

AWS Certified AI Practitioner, DeepLearning.AI Generative AI with Large Language Models, DeepLearning.AI Generative AI for Software Development

Education

Chitkara University | Baddi, Himachal Pradesh
Bachelors in Engineering Computer Science | 08/2012

IMT Ghaziabad | Ghaziabad
Executive Program Business Management | 07/2021