

ROHIT NANDI
Principal Software Developer
Certified Scrum PO

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India

Hello,

I am a Software Professional with approximately 11 years of experience in the software industry. Throughout my career, I have worked as a Full-Stack Developer, Backend Developer, and Machine Learning Engineer. I have a keen interest in algorithmic problem-solving and building large-scale systems. As a proactive and self-motivated team player, I aspire to take on challenging roles that allow me to contribute to impactful engineering solutions.

Want to work together? I'd love to hear from you! :-)

Explore my detailed portfolio and projects: rohitnandi.in

Work Experience

> Senior Software Engineer @ Trading Technologies | December 2024 -October 2026

- **Led end-to-end modernization of the core PDS platform**, migrating from Java 8/Tomcat 9 to Java 21/Tomcat 10 and ensuring compatibility with Amazon Linux 2023 container environments. Resolved complex JVM, classpath, classloader, Jakarta EE (`javax` to `jakarta`), servlet/JAX-RS dependency, Jersey provider, and HTTP client compatibility issues, eliminating critical application startup and runtime failures.
- **Eliminated security vulnerabilities and modernized build infrastructure** by upgrading legacy dependencies and Maven plugins, restructuring nested POMs, resolving dependency duplications and plugin incompatibilities, introducing Maven Toolchains for multi-version JDK builds, and removing deprecated `tools.jar` references. Reworked GitHub Actions CI/CD workflows to support Java 21/Tomcat 10, integrated HDS and AlgoStore test suites, and resolved long-standing unit test failures across PDS, HDS, and AlgoStore.
- **Architected and deployed Alloy as a sidecar service across 7 critical microservices**, establishing centralized, low-overhead observability and unified cross-application metrics tracking. Also developed a Python-based performance testing framework integrated with Grafana APIs to automate telemetry analysis, tracking request volumes, error rates, and fine-grained latency distributions (p50–p99.99). Additionally modernized Filebeat and Microbeat integrations for backward compatibility across Tomcat 8 and Tomcat 10 environments.
- **Contributed to production reliability and cross-application SRE initiatives**, taking ownership of PagerDuty incidents and on-call support within six months of joining the organization. Expanded technical and domain expertise across 10+ PDS modules and approximately 10 DAIS applications, contributing to enhancements, bug fixes, and operational improvements across multiple application components, including OC and MDS.
- **Unblocked critical cross-team product deliveries** by delivering enhancements and resolving blockers across FNO, Tick Tables, PMerges, and S2F products. Collaborated with project managers and engineering teams to complete time-sensitive deliverables while balancing sprint commitments and production support.
- **RHEL 7 to RHEL 9 Migration:** Modernized infrastructure components across legacy Red Hat Enterprise Linux 7 environments to RHEL 9, eliminating OS EOL risks and improving system performance and compliance.

> Senior Consultant App Development @ Zensar Technologies [Payroll: Geektrust] |
February 2024 - June 2024

- Enabled Service Registry and Discovery for seamless service communication.

- Integrated Spring Cloud Config Service for flexible configuration, boosting deployment flexibility.
- Implemented activity logging for database changes to improve traceability.
- Refactored the codebase into modular structures (starter-parent, parent, common-core, etc.) for improved maintainability.
- Coded 40+ REST APIs and wrote JUnit tests, increasing code coverage to 90%.
- Engineered a service application that ingests data from Iceberg tables via AWS Glue catalog.
- Reduced batch processing time by over 99%, from 4 days to under 1 hour, using Java 21 virtual threads.
- Led a team of 6, overseeing code reviews, system design, sprint management, and mentorship.

> Associate Principal Engineer @ Muthoot FinCorp. One | May 2023 – February 2024

- Led the Digital Gold Backend team, driving enhancements, implementing new features, enhancing security, and boosting user engagement by 30%.
- Designed and implemented REST APIs, webhooks, and schedulers for the Gifting feature, extending the product portfolio and increasing customer engagement and gold transactions by 25% on our platform
- Redesigned the Coupon engine to support extensible messaging, enabling marketing campaigns that elevated coupon redemption rates by 40%.
- Designed and developed an e-commerce platform to facilitate physical gold purchases, expanding service offerings and contributing to a 20% revenue increase.
- Integrated Cashfree to enable multiple payment gateways, enhancing user experience and improving transaction completion rates by 15%.
- Refactored Buy/Sell APIs and optimized the database schema to reduce latency by 80%
- Implemented authorization and input validation, reducing risks of vulnerabilities like IDOR, SQLi, & XSS.

> Backend - Development Engineer @ Target Corporation India [Payroll: Geektrust] | September 2022 – May 2023

- Engineered a microservice to process data from Kafka, applying business logic and storing it in Postgres.
- Led the implementation of a new Kafka pipeline, transitioning from legacy batch updates to event-driven updates, improving real-time data processing capabilities.
- Developed API endpoints for re-publishing events to Kafka, simplifying the recovery of lost events and strengthening data integrity.
- Implemented Docker Compose for service deployments, simplifying the deployment process.
- Delivered 24/7 product support and system monitoring during peak seasons, ensuring system stability and customer satisfaction while handling peak loads of over 90,000 requests per second.

> Prototype Developer @ Esellas [Payroll: Rewoke] | November 2021 – July 2022

- Developed knowledge repository to enable seamless addition, viewing, and updating of research data, significantly boosting team productivity.
- Created a new clustering model for improved information retrieval, categorizing articles obtained via APIs, thereby improving information retrieval efficiency, and reducing sourcing challenges.
- Built a ticketing tool to track tasks, assign responsibilities, and share updates, greatly enhancing task management and team collaboration.
- Created a regression model that predicted lead conversion scores, demonstrating a potential 60% increase in data-driven lead conversions.
- Designed data pipelines to aggregate data from third-party APIs, reducing manual data collection time by 50%, and allowing the Research Team to focus on high-value tasks.

> AI Programmer @ Decisive.ai | December 2017 – November 2021

- Implemented a microservices architecture for Data Generation, Learning, and Validation components (Game Deployment Engine, Neural Network server, and Validation server), enabling independent scaling and robust communication via Akka message streaming.
- Led experiments involving the implementation of new ML algorithms based on research papers, neural network modeling, hyperparameter tuning, in-depth analysis, report generation, and results interpretation.
- Created adapters and game engines to facilitate seamless integration with the Learning Platform, which were essential for consistent data generation.
- Developed an interactive dashboard with real-time graphs to monitor training performance, enabling early detection of issues and informed decision-making.

> Engineer, Development @ **Aptean** | **January 2017 – November 2017**

- Redesigned the Files Dashboard module with a streamlined, user-friendly interface inspired by Google Drive.
- Optimized the end-to-end interaction between the file dashboard and the server to handle large files.
- Implemented a robust unit-testing framework, increasing Test Driven Development (TDD) adoption.
- Refactored the codebase to follow MVC architecture, simplifying maintenance and reducing errors.

> System Engineer @ **Infosys Ltd.** | **July 2015 - November 2016**

- Transitioned the application from legacy JDBC, JSP, and JEE to a modern architecture using Spring and Hibernate, enhancing efficiency and maintainability.
- Implemented new business requirements, resolving 95% of reported bugs and enhancing overall feature functionality.
- Optimized code to reduce Jasper Reports generation time by 90%, significantly improving report generation speed.

========== EDUCATION ==========

Degree	University	Score	Institution	Duration
Bachelor of Technology	Maulana Abul Kalam Azad University of Technology	8.12 DGPA	Heritage Institute of Technology	June 2011 - June 2015
Scaler Advanced Computer Science program	Scaler Academy	NA	Scaler	September 2022 - September 2024

========== Technology Expertise ==========

TECHNOLOGIES, FRAMEWORKS & LIBRARIES USED THROUGHOUT MY CAREER

- **Programming Languages -** Java 8/11/17/21, JavaScript, Python, Scala, Kotlin, SQL.
- **WEB FRAMEWORKS** - Spring, Spring Boot, Play-Scala, Node.js, Django, Flask, FastAPI, JEE(Servlet, JSP, JSF).
- **RDBMS & ORMS** - PostgreSQL, MySQL, Oracle SQL, Hibernate, Slick, JDBC, Toad, Workbench, DBeaver.
- **FRONTEND** - React JS, Tailwind, jQuery, Bootstrap, HTML5, CSS3, JavaScript.
- **BUILD TOOLS** - SBT, Maven, Gradle.
- **MACHINE LEARNING** - Neural Networks, Machine Learning Algorithms, Clustering Models, Regression Models, Hyperparameter Tuning, Recommendation Engines, Information Retrieval, DL4J, Neo4j, Pandas, Numpy, Scikit-learn, PyTorch.

- **NO-SQL & MESSAGING** - Redis, MongoDB, Cassandra, Elasticsearch, Kafka, Akka.
- **Architecture & Methodologies -** Microservices Architecture, Event-Driven Architecture, Service Registry & Discovery, RESTful API Design, Test-Driven Development (TDD), Multithreading & Virtual Threads, System Design, Code Refactoring, Agile / Scrum (CSPO Certified), Sidecar Pattern, Activity Logging, Data Structures, and Algorithms, Design Patterns, Big Data, NoSQL.
- **Cloud Infrastructure & DevOps -** AWS, GCP, Docker, Docker Compose, GitHub Actions, CI/CD Workflows, Amazon Linux 2023, Shell / Bash Scripting, Kubernetes, Jenkins, Apache Iceberg, AWS Glue Data Catalog.
- **Monitoring & Observability -** Prometheus, Loki, Alloy, Grafana, Kibana, OpenTelemetry, Filebeat, Microbeat.
- **Domain Expertise -** High-Throughput & Low-Latency Systems, Financial Technology (FinTech / Digital Gold / Payments Integration), E-Commerce Platforms, Game, CRM, CMS, Data Pipelines & Aggregation.
- **MISC.** - GraphQL, GIT, Jasper Reports, Postman, Insomnia, JMeter, JUnit.

========== Awards & Certifications ==========

- Certified Scrum Product Owner® (202605562) | **May 2026 |** Professional certification from Scrum Alliance demonstrating proficiency in Agile product ownership, stakeholder collaboration, product backlog management, and value-driven feature delivery aligning technical engineering execution with strategic business goals.
- Tech Craft Hackathon | **October 2023 |** Secured runner-up position in an intra-organizational hackathon, where our team developed a Proof of Concept (POC) for an Intelligent Lead Aggregator platform, which was subsequently integrated into the product.
- Aptean GEM (Go the Extra Mile) Award | **October 2017 |** Recognized for **proactive** contributions that helped advance the Vantage product and for research conducted at Aptean Research Lab, which added business value to existing products.
- Aptean Machine Learning Hackathon | **September 2017 |** Implemented a Proof of Concept (POC) of a Recommendation engine directly applicable to the company's product Vantage.
- Infosys Top Performer Trainee | **December 2015 |** Recognized as a **Top Performer** (TPF), achieving an overall score of 93% during Infosys training in Mysore and securing **1st place** in the Java stream.
- Robotics | **2014 |** Finalist in Inspiral-On (a manual robotics event) at Kshitij 2014 (IIT Kharagpur Technical Fest), where teams participated from all over the globe.
- Exorsa v2.0 | **September 2014 |** **Intra WBUT University** online fest conducted by mywbut.com, participants enrolled from colleges all over West Bengal.
    - Bagged **3rd** position in **"FAST PRESENTER"** online PowerPoint presentation to be submitted in 30 minutes.
    - Bagged **7th** and **9th** position in **"WWWIZARD",** a static web design competition.

********** **Thank You!** **********