BASIL N G

STAFF ENGINEER | SENIOR JAVA BACKEND ENGINEER

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PROFESSIONAL SUMMARY

Staff Engineer with 8+ years of experience delivering Java backend systems for payment, financial, and enterprise products. Specializes in Spring Boot microservices, REST API design, AWS integrations, data modelling, performance tuning, and production troubleshooting. Recent work includes payment-gateway integration, automated transaction reconciliation, and load validation beyond 50,000 concurrent users. Uses AI-assisted tools to accelerate test design and documentation while retaining engineering review and security controls.

TECHNICAL SKILLS

Languages & Fundamentals: Java 17/21/25, SQL, object-oriented programming, data structures, algorithms, concurrency;
Backend & Architecture: Spring Boot, Spring MVC, Spring Data JPA, Hibernate, Spring Cloud Open Feign, Resilience4j, microservices, RESTful APIs, Open API/Swagger
Security: Spring Security filter chains, OAuth2 Resource Server, OAuth 2.0, OIDC, PKCE, client credentials, JWT/JWKS, key rotation, OWASP Top 10; familiarity with mTLS.
Data & Messaging: PostgreSQL, MySQL, Microsoft SQL Server, MongoDB, Redis, Kafka, RabbitMQ, AWS SQS/SNS, Flyway
Cloud & Delivery: AWS Lambda, Batch, S3, EC2, IAM, CloudWatch, Kinesis; Docker, Podman, Kubernetes; Maven, Gradle; familiarity with ECS/Fargate, Secrets Manager
Quality, Observability & Tools: JUnit 5, Mockito, JMeter, GitHub, GitHub Actions, Jenkins, Splunk, Prometheus, Grafana, Jira, Confluence, Slack, Zoom, draw.io, ChatGPT, GitHub Copilot

PROFESSIONAL EXPERIENCE

Staff Engineer | Altimetrik **Jul 2024 - Present**
India

- Lead backend delivery for Payment Plus services covering payment processing, REST integrations, transaction reconciliation, and AWS messaging and storage.
- Integrated a new payment gateway that lowered transaction failures by 25% and stabilized downstream processing.
- Introduced AI-assisted test generation, shortening test-design effort by 80% and expanding automated coverage to 97%.
- Validated 50,000+ concurrent users with JMeter, exposed bottlenecks, lifted throughput by 30%, and lowered peak-load downtime risk by 40%.
- Automated reconciliation through AWS Batch and Lambda, restoring 99.9% master-data consistency, recovering Kinesis data gaps, and completing runs 70% faster.
- Upgraded SQS, SNS, and S3 integrations to AWS SDK 2.x and enforced IMDSv2, delivering 35% higher client throughput while removing IMDSv1 exposure.

Senior Developer | SubscribeIT **Aug 2021 - May 2024**
India

- Re-platformed a legacy payment system such as Spring Boot microservices and REST APIs, shortening processing time by 30% and strengthening resilience.
- Directed an eight-engineer team that delivered an algorithmic financial platform and surpassed previous benchmarks by 15%.
- Migrated critical banking services to AWS-oriented deployment patterns, trimming infrastructure cost by 25% and compressing release cycles by 40%.
- Established GitHub Actions pipelines that raised deployment frequency by 300% and removed repetitive release steps.
- Optimized JVM garbage collection, SQL access paths, and latency-sensitive code, decreasing peak response time by 20%.
- Facilitated Java workshops and architecture reviews on API contracts, schema design, code quality, and production failure handling.

Business Technology Analyst | Deloitte **Feb 2021 - Aug 2021**
India

- Delivered Java microservice and REST enhancements that expanded functionality by 20% while preserving validation and error-handling standards.
- Created JUnit unit and service tests that reached 95% coverage and strengthened regression protection.
- Conducted chaos experiments that improved recovery behavior and increased service resilience by 30% under failure conditions.
- Resolved Jira-tracked UAT defects on schedule through Splunk diagnostics and coordinated release validation with QA and business teams.
- Mentored junior engineers on setup, debugging, and test practices, halving onboarding time.

Software Engineer | Zerone Consulting **Sep 2018 - Jan 2021**
India

- Engineered Java integration services, REST/SOAP clients, and data-processing utilities that deliver 30% greater efficiency and 20% faster integrations.
- Orchestrated Hadoop workloads on AWS EMR, boosting data throughput by 25% while trimming storage costs by 15%.
- Translated reporting and relational schema requirements into maintainable database objects and performant queries.
- Standardized Linux deployments with shell automation, reducing execution time by 40% and eliminating 80% of manual errors.
- Adopted Java 8 lambdas and Streams, removing 40% of boilerplate and accelerating delivery by 25%.

SELECTED ENGINEERING PROJECT

Cloud-Native E-Commerce Microservices Platform | *Independent Architecture Project*
Technology: Java 25, Spring Boot 4, Open Feign, Spring Security, PostgreSQL, MySQL, MongoDB, Redis, Kafka, RabbitMQ, Flyway, Docker/Podman, Kubernetes, AWS, Terraform, Resilience4j, Open API

- Decomposed the platform into Identity, User, Product, Inventory, Order, Payment, and Notification services with database ownership, versioned APIs, and Kafka/RabbitMQ event flows.
- Implemented Spring Security filter chains, OAuth2 Resource Server, OIDC, PKCE, client credentials, JWT claims, and JWKS validation.
- Modelled PostgreSQL schemas and Flyway migrations; evaluated Redis caching, sessions, rate limits, and distributed locking with explicit TTL and recovery behavior.
- Prepared Kubernetes manifests and an AWS ECS/Fargate blueprint with Secrets Manager and Terraform, incorporating OWASP controls, probes, resource limits, rolling updates, metrics, centralized logs, idempotency, retries, circuit breakers, and dead-letter handling.

EDUCATION

Master of Computer Application, Computer Science **2015 - 2018**
Sree Narayana Gurukulam College of Engineering, Ernakulam, Kerala

Bachelor of Computer Application, Computer Science **2012 - 2015**
Indira Gandhi College of Arts and Science, Kothamangalam, Kerala

Languages: English - Business-level professional proficiency