

Divyansh Rana

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Experience

Backend Engineer with 6+ years of experience in scalable distributed systems, cloud-native architectures, and high-performance microservices. Skilled in **Java, Spring Boot, Quarkus, Kafka, AWS, Kubernetes**, with expertise in OOP, large-scale system distribution, modernizing legacy systems, optimizing performance, and driving developer productivity. Passionate about system design, resilient APIs, and cloud infrastructure.

Delta Airlines – Software Engineer II Dec 2022 – Present | Bangalore, India

- Created and published reusable internal libraries (hosted in npm Nexus repo) widely adopted across the org, reducing developer time and improving code consistency.
- Architected and developed a cloud-native vacation booking platform in Java, Quarkus, Redis, reducing booking latency by 30% and supporting 30K+ concurrent users.
- Developed a real-time user activity detection service from scratch, monitoring cross-tab interactions, syncing session states, and triggering configurable alerts (e.g., logout warnings), enhancing engagement and security.
- Designed and implemented an NX framework proof-of-concept for modernization initiatives, reducing developer overhead and improving team efficiency.
- Implemented SAGA pattern for distributed transactions across microservices, improving consistency and fault tolerance.
- Built a vacation builder with reactive programming, serving APIs to thousands of travel agents using scalable design patterns.
- Automated beta and stable release pipelines with versioning, naming conventions, and CI/CD integrations, ensuring smooth adoption of shared libraries.
- Automated GitLab CI/CD pipelines with linting, test coverage, Veracode scanning, and secure deployments.
- Modernized 10+ legacy monolith applications into microservices with SSO and modular UI flows.
- Enhanced reliability with AWS CloudWatch monitoring and automated alerts.

Scienaptic AI – Software Engineer II Oct 2020 – Dec 2022 | Bangalore, India

- Developed an automated credit decisioning platform with end-to-end underwriting workflows, enabling faster and more consistent loan approvals for banking clients.
- Integrated 3rd-party vendor data into the decision engine using webhook + cron pipelines, improving accuracy by 15% for shared users.
- Led execution of a pricing guidance system used by the marketing team to strategize product pricing. Integrated external APIs and automated multi-dimensional (horizontal & vertical) calculations, generating actionable reports that optimized competitor benchmarking and discount strategies.
- Built a real-time forecasting and what-if analysis tool (Angular, Spring Boot, Kafka, JUnit, TDD) for a banking client, helping simulate scenarios while ensuring data security with client-side deployment.
- Delivered interactive dashboards (AureliaJS + Plotly) with client-side caching, providing real-time insights and reducing latency for analytics.
- Designed webhook-based services (Java + NoSQL) for mobile-first apps, enabling instant user notifications and smoother integration with external systems.
- Introduced PR best practices (code quality, design patterns, documentation) and mentored a new project team, improving code maintainability and collaboration.

Infosys – Systems Engineer Aug 2019 – Oct 2020 | Pune, India

- Developed an internal job portal (Angular + Spring Framework) enabling direct applications and interview scheduling, streamlining hiring workflows and reducing HR coordination time.
- Modernized the company’s internal homepage (used daily by employees) by gathering requirements, suggesting enhancements, and successfully launching the product in an agile model.
- Delivered production-ready, high-quality code by following Agile and XP practices, ensuring faster iterations and reliable deployments.

Key Achievements

- Reduced booking latency by 30% for a high-traffic airline platform supporting 30K+ concurrent users.
- Improved credit decision accuracy by 15% through external vendor data integration.
- Accelerated hiring workflows by launching an internal job portal used across HR teams.
- Boosted developer productivity by publishing reusable libraries and automating beta/stable release pipelines.

Skills

Backend: Java, Spring Boot, Quarkus, Kafka, Cloud & Infra: AWS (Lambda, S3, Route53, Hibernate/JPA, SQS, SNS, EventBridge), Docker, Kubernetes, Redis

Frontend: Angular, React, Next.js, TypeScript DevOps/Tools: GitLab CI/CD, AWS CloudWatch, Veracode, MySQL, MongoDB

Education

B.E. in Computer Science Engineering | 2015 – 2019 | India
CGPA: 8.2 / 10

Projects

- GenAI Reddit Uploader
Automated bot using Stable Diffusion XL for image generation with dynamic text, filters, and anti-patterns.
Integrated GitHub Actions worker pipelines to schedule daily posts on a subreddit.
Enables end-to-end automated content generation and publishing.
- Photogram (Social Media App)
Full-stack app with Spring Boot backend and React frontend.
JWT authentication (sign-up, login, forgot-password).
Core social features: posting images/text, comments, likes, follow system.
Deployed on Heroku with complete database-backed architecture.
- GraphLink (Scalable Backend Infra)
Event-driven microservices platform hosted on Kubernetes.
Implemented service discovery, API gateways, authentication.
Used Neo4J for user connections, PostgreSQL for relational data, Kafka for event streaming.
Microservices in Spring Boot, each with its own database for scalability and fault isolation.
- HTML-PDF Automation Pipeline
Automated pipeline using GitHub Actions to convert HTML into PDFs on every commit.
Published updated versions to GitHub Pages for browser viewing and downloads.
Ensures a continuously up-to-date resume with both HTML visualization and downloadable PDF in a public repo.