

Divyansh Rana

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Skills

Languages: Java, Javascript, Typescript, Python	Frameworks: Spring Boot, Quarkus, Angular, React, NX, Hibernate/JPA
DevOps/Tools: GitLab CI/CD, Veracode, MySQL, MongoDB, Kafka, Redis	Cloud & Infra: AWS (EC2, Lambda, S3, Route53, SQS, SNS, EventBridge, Cloudwatch), Docker, Kubernetes

Experience | 6+ years | Backend development | Designing and scaling distributed systems

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

- Architected and developed a cloud-native vacation booking platform in **Java, Quarkus, Redis**, **reducing booking latency by 30%** and supporting **30K+ concurrent users**.
- Led a **cost-optimization initiative** in the **ROSA (Red Hat OpenShift Service on AWS)** environment by identifying static pod deployments and enabling **autoscaling**, improving resource utilization for 20K–30K users and achieving an estimated annual cost saving of **\$30,000–\$40,000**.
- Implemented **SAGA pattern** for distributed transactions across microservices, improving consistency and fault tolerance.
- 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**.
- Orchestrated a **vacation builder using Java Quarkus with reactive programming**, enabling non-blocking, high-throughput APIs that efficiently served thousands of travel agents with improved performance and scalability.
- Designed and spearheaded an **NX framework proof-of-concept** that was leveraged to modernize **10+ legacy monolith applications** into microservices with SSO and modular UI flows, **reducing developer overhead** and **improving team efficiency**.
- Devised **beta and stable release pipelines** with versioning, naming conventions, and CI/CD integrations, enabling seamless reuse of internal libraries (authentication, logging) across teams.
- Automated and maintained **GitLab CI/CD pipelines** with linting, test coverage, Veracode scanning, and secure deployments, accelerating application delivery while improving code quality and security.
- Fortified **system reliability** with AWS CloudWatch monitoring by tracking service availability, configuring automated alerts, and building an aggregated dashboard for all microservices to enable proactive issue detection and faster incident response.
- JAVA, AWS, EC2, S3, Route53, EventBridge, Cloudwatch, DynamoDB, IAMs, Redis, Quarkus, Springboot, Angular, NX, MongoDB, PostgreSQL, Docker

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

- Engineered an **automated credit decisioning platform** with end-to-end underwriting workflows, enabling **faster and more consistent loan approvals** for banking clients.
- Streamlined **integration of 3rd-party vendor data** into the decision engine using webhook + cron pipelines, **boosting accuracy by 15%** for shared users.
- Led **execution of a pricing guidance system** leveraged by the marketing team to strategize product pricing. Integrated external APIs and automated multi-dimensional (horizontal & vertical) calculations, **producing actionable reports that optimized competitor benchmarking and discount strategies**.
- Gained **end-to-end understanding of the product** and **undertook the initiative to create and maintain comprehensive technical documentation** for long-term scalability and knowledge sharing.
- Devised a **real-time forecasting and what-if analysis tool** with **Test-Driven Development (TDD)** for a banking client, empowering scenario simulations while safeguarding data through client-side deployment.
- Crafted **interactive dashboards** (AureliaJS + Plotly) with client-side caching, delivering real-time insights and **reducing latency** for analytics.
- Architected **webhook-based services (Java + NoSQL)** for mobile-first apps, enabling instant user notifications and smoother integration with external systems.
- Championed **PR best practices** (coding standards, design patterns, documentation) and **mentored a new project team**, strengthening code maintainability and cross-team collaboration.
- JAVA, Springboot, Kafka, Junit, AWS Lamda, AWS pipeline, NodeJS, PySpark, MongoDB, Javascript, AngularJS, AurliaJS

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.

Education

B.E. in Computer Science Engineering | 2015 – 2019 | India
CGPA: 8.2 / 10
Relevant Coursework: **OOPS (Object Oriented Programming), Data Structures & Algorithms**, Operating Systems, Database Management Systems, Computer Networks, Software Engineering, Cloud Computing, **Software Design**

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.

Achievements & Honors:

- Mentor at Newton School:** Guided aspiring developers in mastering data structures, algorithms, and full-stack development through structured mentorship and hands-on coding practice.
- AI Foundations Nanodegree** – Udacity | Issued May 2018
- Android Basics Nanodegree** – Udacity | Issued May 2017