

AJIT KUMAR

FULL STACK SOFTWARE ENGINEER

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SUMMARY

Product-focused Full Stack Software Engineer with 3.5+ years of experience building scalable SaaS and healthcare platforms using Java, Spring Boot, Angular, PostgreSQL, MongoDB, Redis, and AWS. Skilled in platform engineering, microservices, dynamic workflows, RBAC, and system design, with end-to-end ownership from design to production.

EXPERIENCE

Software Developer Engineer - Docquity Services Pvt Ltd

📅 Jan 2023 - Present

📍 Gurugram

Patient Assistance Program (PAP)

- Led the frontend redesign and development of a **multi-tenant Patient Assistance Program (PAP) platform**, modernizing a legacy Angular 10 application to support **20+ pharma clients, 40–50 active programs**, and workflows serving **30k–45k patients and 4.5k doctors**.
- Designed and developed a **metadata-driven dynamic form engine** using **Angular, NgRx, RxJS, and Reactive Forms**, enabling configuration-driven onboarding, enrollment, consent management, benefit delivery, and program administration with **20+ configurable field types**.
- Implemented advanced form capabilities including **nested and recursive forms**, dynamic API-driven dropdowns, file uploads, consent workflows, configurable validations, and conditional rendering, significantly improving platform flexibility and reducing development effort for new workflows.
- Architected a scalable frontend using **Angular 20 standalone components, lazy-loaded modules, route-level dependency injection, and NgRx state management**, improving maintainability, reducing bundle size, and accelerating feature delivery.
- Built a **Role-Based Access Control (RBAC)** framework with route guards, HTTP interceptors, and permission-driven UI rendering, supporting secure multi-role workflows across patients, doctors, pharma administrators, approvers, and operations teams.

Onboarding

- Led the development of a **configurable onboarding and authentication platform** used across **4 Angular applications**, supporting **15–20 pharma clients, 30+ healthcare programs**, and multi-country/multi-language onboarding flows.
- Built an **Angular admin portal** with **PostgreSQL-backed configuration management**, enabling product and operations teams to manage onboarding journeys, user attributes, branding, and login methods without deployments.
- Developed a reusable **npm package** using **TypeScript, SCSS, and Webpack** that dynamically rendered onboarding workflows and authentication experiences, enabling seamless integration across multiple client applications.
- Implemented **customizable login/signup flows** supporting OTP, MPIN, Password, Google, Microsoft, and Meta **SSO authentication**, reducing onboarding configuration turnaround from release cycles to **5–10 minutes**.
- Designed scalable **REST APIs**, configuration services, and authentication workflows, ensuring low-latency access to onboarding configurations and reliable production performance.

Survey, CME Quiz & Poll

- Led the development of configurable **Survey, CME Quiz, and Poll management modules** within an enterprise admin platform, enabling dynamic creation of multi-step forms with **12+ question types**, validations, conditional visibility, and scoring rules.
- Built a **dynamic form rendering and conditional logic engine** using **Angular Reactive Forms, NgRx, and RxJS**, supporting configurable sections, questions, and workflows without application code changes.
- Developed backend services using **Java, Spring Boot, PostgreSQL, MongoDB, and Redis** to manage content configurations, user responses, analytics, and CME scoring, ensuring scalable and efficient data processing.
- Designed a normalized configuration model with **PostgreSQL** for form metadata and **MongoDB** for response storage, enabling flexible schema evolution while maintaining efficient analytics and reporting.
- Enabled **question-level analytics, participation tracking, and compliance reporting**, supporting seamless integration with client applications and webinar-based learning workflows.

HCP Groups & Content Targeting

- Developed a **group-based audience segmentation and content targeting platform** for Healthcare Professionals (HCPs), enabling reusable audience definitions across surveys, CMEs, polls, webinars, and other engagement workflows.
- Built **Angular-based administration modules** for community and group management, supporting public/private groups, role-based memberships, dynamic user enrollment, and configurable access policies.
- Enabled operations teams to define reusable audience segments using **pharma, community, association, country, segment, and user-role filters**, eliminating repetitive targeting logic across multiple content types.
- Contributed to the migration from a **MySQL-based monolith** to a **Neo4j-powered microservices architecture**, enabling efficient graph-based relationship queries and personalized content recommendations.
- Supported **dynamic audience targeting** across healthcare professionals, pharma companies, associations, communities, programs, and countries, improving targeting flexibility and content relevance.

PERSONAL PROJECTS

Nirdeshak - URL Shortener

- Built and deployed a **production-ready full-stack URL shortening platform** using **React, TypeScript, Spring Boot, PostgreSQL, and Docker**, supporting authenticated and anonymous URL creation with expiration-based link management.
- Implemented **JWT-based authentication, role-aware URL management, click analytics, and REST APIs**, enabling secure access, URL lifecycle management, and redirect tracking.
- Designed and automated the **CI/CD pipeline** using **GitHub Actions, Docker, GHCR, AWS EC2, and AWS Secrets Manager**, taking the application from development to production with fully automated deployments.
- **Links:** [Live Demo](#) | [Backend Repository](#) | [Frontend Repository](#)

SKILLS

- **Programming Languages:** Java, TypeScript, JavaScript, Python, C++
- **Backend:** Spring Boot, Spring Security, JPA/Hibernate, REST APIs, JWT Authentication, Express.js, NestJS, Node.js, gRPC
- **Frontend:** Angular, React, Next.js, RxJS, NgRx, TypeScript, Bootstrap, PrimeNG, Tailwind CSS, HTML5, SCSS
- **Databases & Caching:** PostgreSQL, MySQL, MongoDB, Neo4j, Redis
- **Cloud & DevOps:** AWS (EC2, S3, Secrets Manager), Docker, Kubernetes, GitHub Actions, Jenkins, CI/CD, Git, Maven
- **Architecture & Concepts:** Microservices, Distributed Systems, RBAC, OAuth/SSO, Configuration-Driven Systems, Dynamic Form Engines, Caching, System Design, Data Structures & Algorithms
- **Tools & Build Systems:** Webpack, npm, Swagger/OpenAPI

EDUCATION

Birla Institute of Technology, Mesra

B.Tech - Information Technology

📅 July 2019 - May 2023

CGPA: 8.14/10

📍 Mesra, Ranchi