Arya Shah

Software Engineer Intern | Full-Stack Development (MERN, Java, Spring Boot) & Applied AI
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PROFESSIONAL SUMMARY

B.Tech Information Technology student with prior internship experience and a strong foundation in Data Structures & Algorithms (DSA) and Object-Oriented Programming (OOP). Proven track record of building and deploying full-stack production apps using React.js, Node.js, Express.js, Java 21, and Spring Boot 4. Experienced in RESTful APIs, JWT & Role-Based Access Control (RBAC), Google Gemini LLM & Multimodal RAG workflows, real-time WebSockets, and PostgreSQL/MongoDB.

TECHNICAL SKILLS

Languages: Java (Java 21), JavaScript (ES6+), Python, SQL, C, C++, HTML5, CSS3
Backend & APIs: Spring Boot 4, Spring MVC, Spring Security, Spring Data JPA, Node.js, Express.js, RESTful APIs (REST API), STOMP/WebSockets
Frontend & Web: React.js (React 18), Progressive Web Apps (PWA), Service Workers, Vite, Responsive Web Design, DOM Manipulation
AI, ML & Data: Google Gemini API, Multimodal RAG, Prompt Engineering, Scikit-Learn, Pandas, NumPy, Data Preprocessing, Classification
Databases & DevOps: PostgreSQL, MongoDB Atlas, MySQL, Flyway Migrations, Docker, Maven, Git, GitHub, Postman, Vercel, Render, AWS Cloud
Security & Core CS: JSON Web Tokens (JWT), Role-Based Access Control (RBAC), HMAC-SHA256 Webhooks, DSA, OOP, DBMS, MVC Architecture

WORK EXPERIENCE

Web Development Intern (React.js) — Shiv Infotech | Sep 2023 - Oct 2023 (1 month)

- Developed modular, responsive React.js UI components using JavaScript (ES6+), HTML5, and CSS3, translating design specs into reusable views.
- Integrated frontend components with RESTful backend APIs to manage asynchronous state, form validation, and cross-device responsiveness.

PROJECTS

Freelance Agency Suite — Multi-Tenant AI Client Management & Operations Platform
Technologies: Java 21, Spring Boot 4, React 18, PostgreSQL, Flyway, Gemini API, JWT, WebSocket, Razorpay, Docker | github.com/AryaShah800/FreelanceAgency-Project-Client-Management-Suite

- Architected a multi-tenant CRM, project tracking, and task workflow platform on Spring Boot RESTful APIs with stateless JWT authentication, RBAC, and strict tenant data isolation.
- Integrated the Google Gemini LLM API for AI proposal drafting and built a tokenized e-signature portal recording signer metadata, timestamps, and a SHA-256 audit hash before auto-generating projects and deposit invoices.
- Implemented GST-compliant invoice generation and Razorpay checkout with HMAC-SHA256 webhook signature verification and idempotent payment reconciliation.
- Built real-time task comment broadcasting over STOMP/WebSockets, automated PostgreSQL schema versioning via Flyway migrations, and containerized the stack with a multi-stage Docker build.

Smart Expense System — Full-Stack MERN Progressive Web Application
Technologies: React 18, Node.js, Express.js, MongoDB Atlas, REST API, JWT, Nodemailer, PWA Service Workers, Vercel, Render | github.com/AryaShah800/smart-expense-system

- Engineered a personal and group expense tracker using React.js, Node.js, Express.js, and MongoDB Atlas with JWT authentication, Admin/User RBAC, and automated equal-split pending balance calculations.
- Eliminated free-tier Render backend cold-start logouts by refactoring React `ProtectedRoute` state persistence, and fixed production SMTP port 587 timeouts in Nodemailer by enforcing IPv4 DNS resolution.
- Enabled offline caching and installable support via custom PWA service workers, deploying the frontend on Vercel and the REST API on Render with MongoDB Atlas.

EDUCATION

Bachelor of Technology (B.Tech), Information Technology
Dharmsinh Desai University | 2024 - Expected May 2027 | CGPA: 6.76/10

Diploma, Information Technology
Lok Jagruti Kendra University | 2021 - 2024 | CGPA: 7.11/10

Secondary School Certificate (SSC), Gujarat Board
Sheth C N Vidyalaya, Ahmedabad | 2021 | 87.5%

CERTIFICATIONS

Inspect Rich Documents with Gemini Multimodality and Multimodal RAG (Skill Badge) — Google Cloud | credly.com/badges/ed4a554b

AWS Academy Graduate — Cloud Foundations (20 Hours) — Amazon Web Services (AWS) | credly.com/go/vi3ESTS7