

SWADESH CHATTERJEE

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SUMMARY

Full-stack engineer building production web applications with **Next.js**, **React**, **TypeScript**, and **Node.js**, backed by a **Java/Spring Boot** foundation. Experienced designing type-safe REST APIs and server actions, modeling relational data on **PostgreSQL** with **Drizzle** and **Prisma**, and shipping **AI-powered features** on the **OpenAI** API with schema-validated Structured Outputs. Owns features end to end — schema design, authentication, performance, and deployment.

TECHNICAL SKILLS

Languages	Java, JavaScript, TypeScript, SQL
Frameworks & Libraries	React, Next.js, Node.js, Express.js, TanStack Query, Tailwind CSS, shadcn/ui
Databases & ORMs	PostgreSQL, MongoDB, Redis, Prisma, Drizzle ORM, Mongoose
Tools & Platforms	Docker, Git, GitHub, Turborepo, Bun, Postman, Linux, Vercel

WORK EXPERIENCE

CodSoft

May 2026 – Present

Web Development Intern

Remote

- Built a full-stack **e-commerce platform** with **React** and **TypeScript**, delivering a secure, scalable shopping experience across desktop and mobile.
- Developed **authentication**, product catalog, shopping cart, and order processing workflows using **Clerk**, streamlining the end-to-end customer purchase journey.
- Integrated the **Razorpay payment gateway** alongside responsive UI components, ensuring secure transactions and consistent performance on every device.

PROJECTS

AI Resume Tracker | [Live Demo](#) | [Source Code](#)

June 2026

- Architected a job application tracker on **Next.js 16 App Router** with **8 routes**, **34 components**, and **7 type-safe server actions**, eliminating client-side fetching via React Server Components.
- Engineered an AI resume analyzer using **OpenAI Structured Outputs** and **Zod** validation, generating **8-field reports** with dual **0–100 ATS and job-match scores** from **6 MB PDF** uploads.
- Designed a **7-stage application pipeline** on **PostgreSQL** with **Drizzle ORM**, adding **3 composite indexes** to accelerate user-scoped search, filtering, and paginated queries.
- Delivered an analytics dashboard reporting **6-month** trends, status distribution, and acceptance rates through **single grouped SQL aggregations**, visualized with **Recharts**.
- Secured every route and mutation with **Clerk authentication**, proxy middleware, per-user row-level isolation, and dual client/server **Zod** validation against tampered requests.
- Tech Stack:** Next.js 16, React 19, TypeScript, PostgreSQL (Neon), Drizzle ORM, Clerk, Vercel AI SDK, OpenAI, TanStack Query, Zod, Recharts, shadcn/ui, Tailwind CSS v4

ProjectHub | [Live Demo](#) | [Source Code](#)

May 2026

- Implemented a full-stack **MERN project management platform** with **3 role-based access levels**, securing collaboration with **access/refresh tokens**, email verification, and password recovery.
- Shipped **30+ REST APIs** covering authentication, projects, tasks, notes, file attachments, and member management across the complete project lifecycle.
- Streamlined task tracking through an interactive **Kanban workflow** with drag-and-drop, subtasks, optimistic updates, activity logs, and analytics dashboards.
- Tech Stack:** React 19, Node.js, Express 5, MongoDB, Mongoose, TanStack Query, Zustand, Tailwind CSS, JWT

AWARDS & ACHIEVEMENTS

- Backend Engineering Simulation, Forage (2025):** Engineered a **Spring Boot** and **Kafka** microservice for high-volume event processing with end-to-end API integration.
- Microsoft Learn Student Ambassador Workshop (2023):** Completed a technical workshop on **web development workflows**, tooling, and debugging practices.
- National Hackathon, Devfolio (2022):** Led a **5-member team** to deliver a **Web3-based solution** within a **36-hour** competitive build sprint.

EDUCATION

Lovely Professional University

Aug 2020 – June 2024

Bachelor of Computer Engineering

Jalandhar, Punjab