DEEP PANCHAL

Software Engineer | Full-Stack · Cloud Systems · GIS Platforms
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Portfolio · GitHub · LinkedIn

PROFESSIONAL SUMMARY

Software Engineer with 5+ years building scalable web platforms, enterprise systems, GIS applications, and cloud-native solutions. Track record of architecture ownership, deployment automation, and engineering leadership, with solutions adopted by government agencies, NGOs, and 50,000+ users across India.

EXPERIENCE

PMC | *Software Engineer* May 2025 – Present

- Engineer on the National Express platform — the UK's largest scheduled coach operator (21M+ annual passenger journeys, 900+ destinations, 550+ daily services).
- Lead architecture decisions, code reviews, deployment strategy, and engineering standards; own production releases and cloud infrastructure end-to-end.
- Design and maintain scalable systems using TypeScript, Node.js, PostgreSQL, Docker, and AWS. Awarded Star Performer (Dec 2025) for technical leadership and project ownership.

Re:Invent IT Solutions | *Software Developer* Oct 2023 – Apr 2025

- Built production applications for international clients using React, Node.js, PostgreSQL, and AWS — delivering scalable APIs, cloud integrations, and business-critical platform features.

Foundation for Ecological Security (FES) | *Software Developer → Deputy Project Manager* Apr 2021 – Oct 2023

- Built GIS-enabled decision-support systems, enterprise platforms, APIs, and reporting engines used by state governments and forest departments.
- Integrated SSO, multilingual support, dynamic forms, and shared microservices across platforms.

PROJECTS

HUMAN API

Real-time platform that turns multi-user team chat into a versioned, executable work contract.

- Designed an LLM-as-parser pipeline where Gemini extracts intent but never owns truth — merge, readiness scoring, conflict detection, and verification run as deterministic engines, so contradictions cannot silently overwrite agreed values.
- Built real-time REST + WebSocket collaboration (JWT auth) with a status machine that emits work packages and optional Jira tickets only once the agreement is complete and conflict-free, backed by dual storage (PostgreSQL/MongoDB) and pytest/Vitest coverage.

PawYard — *Social platform with profiles, feeds, notifications, and media management.*

FitNat — *Health-tracking platform built for doctors and VIP clients.*

Magson ERP — *Inventory, billing, reporting, and operational workflow management system.*

Webby — *Real-time communication platform using Socket.io and JWT authentication.*

SCALE & IMPACT

National Express (UK)	Platform for the UK's largest coach operator; 21M+ journeys/yr
Common Land Mapping	32,000+ users; 648,000+ hectares mapped
CLART	Adopted by 7 Indian state governments
GEET	Deployed across 27 Indian states
IFMT / VANAPP	Adopted by 50+ forest departments
Agri-MIS	Supported 5,000+ farmers in Odisha
Groundwater Monitoring	Informed India's Jaldoot initiative

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, PHP, C, C++
Frontend: React.js, Next.js, Angular, HTML5, CSS3, Tailwind CSS, Bootstrap, Material UI
Backend: Node.js, Express.js, FastAPI, Laravel, REST APIs, GraphQL, WebSockets, Socket.io, Microservices
Databases: PostgreSQL, PostGIS, MySQL, MongoDB, Sequelize ORM, Alembic
Cloud & DevOps: AWS, Docker, Docker Compose, Linux, Nginx, CI/CD, Git
GIS & Mapping: GeoServer, OpenLayers, Mapbox, QGIS
Practices: System Design, Database Design, API Design, Code Reviews, Agile Development

EDUCATION

MCA — SRM Institute of Science and Technology · GPA 9.5 / 10 **BCA** — Sardar Patel University · GPA 8.28 / 10