

DEVASHISH TYAGI

Full Stack Developer & AI Systems Engineer

iamdevashishtyagi@gmail.com | iamdevashishtyagi.vercel.app | linkedin.com/in/iamdevashishtyagi | +91 95574 23119

SUMMARY

Full-stack engineer with 1.5+ years building and operating production software across frontend, backend, databases, and applied AI. Experience spans an enterprise ERP used concurrently by multiple institutions, multi-tenant SaaS architecture, international e-invoicing compliance, and a tenant-isolated retrieval-augmented generation platform. Comfortable owning features end-to-end — from ambiguous requirements through deployment, production debugging, and long-term maintenance — while collaborating directly with international stakeholders and mentoring junior developers.

PROFESSIONAL EXPERIENCE

APERP Technologies — Full Stack Developer

Feb 2025 – Present

Gurugram, India

- Own development of a multi-year production College ERP spanning admissions, academic records, attendance, examinations, fees, and role-based access — used concurrently across multiple institutions with zero rollbacks across 30+ shipped modules.
- Diagnosed MongoDB performance bottlenecks in attendance and reporting workflows under concurrent load by auditing real query patterns, then resolved them with targeted compound indexing and aggregation-pipeline redesign — eliminating a recurring class of timeout failures.
- Implemented auto-login from admin ID into user ID using short-lived signed tokens, explicit permission scopes, and full audit logging — replacing password-sharing across support and debugging workflows.
- Delivered Digithera, an invoice management and e-invoicing conversion system, in direct collaboration with a client team based in Italy — translating country-specific tax and schema requirements into deterministic validation logic across a language and time-zone gap.
- Built deterministic XML/XSD conversion and validation pipelines between international e-invoicing formats (FatturaPA, UBL, Factur-X, CII) for a European client, cutting manual processing and compliance errors.

Stack: React, Vue.js, Next.js, Node.js, Express, MongoDB, Redis, TypeScript, OpenAI API, AWS (S3, SES), Docker, Vercel

MAJOR PROJECTS

Althea — Multi-Tenant AI/RAG Engine

iamdevashishtyagi.vercel.app

Retrieval-augmented AI engine embedded across personal and client products. Chunks documents, generates embeddings, isolates vector indexes per tenant, and grounds OpenAI responses in retrieved context instead of open-domain guesses — retrieval quality tuned to keep answers verifiably sourced.

Tech: Vue.js, Node.js, Express, MongoDB Atlas Vector DB

College ERP — Enterprise Academic System

Owns the data model and business logic behind a live ERP used by multiple institutions at once — handling retakes, credit transfers, and semester carry-over without corrupting historical records, and holding up under peak load during admissions week and exam results day.

Invoice Converter — E-Invoicing Pipeline

xml-babel-converter.com

Feature: Third-Party API Integration

Tech: XML/XSD, Automation, SHA-256 Validation

World Media — SEO-First Marketing Site

worldmediancr.com

Next.js/TypeScript marketing site engineered for performance and search visibility from the first commit — semantic markup, structured metadata, and optimized image/font delivery. Achieved 90+ Lighthouse scores across devices, deployed on Vercel with a Git-based CI pipeline.

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Java, PHP
Frontend	React, Vue.js, Next.js, SSR/SSG, Tailwind CSS, Pinia
Backend	Node.js, Express.js, REST API Design, Service Architecture
Databases	MongoDB, Redis, Schema Design, Indexing & Query Optimization, Aggregation Pipelines
AI & Data	OpenAI API, RAG, Embeddings, Vector Search, Prompt Engineering
Cloud & DevOps	AWS (S3, SES), Docker, Vercel, Render, CI/CD, Git & GitHub
Engineering	System Design, Performance Optimization, Production Debugging, Code Review

EDUCATION

B.Tech, Computer Science & Engineering (Data Science) — RD Engineering College

2021 – 2025