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Portfolio

Education

SGT University

Bachelor of Computer Applications (BCA)

Aug 2022 – Aug 2025

Gurugram, Haryana

Experience

Backend Software Engineer (Contract), TruesTech IT Solution Pvt. Ltd.

Dec 2025 – Present

Tech Stack: Node.js, Express.js, MySQL, MongoDB, Redis, Docker, AWS EC2, PM2, Webhooks

Gurugram, Haryana

- Built dashboard and backend services processing 10K-50K transactions/day across 2 payment gateways and banking APIs.
- Engineered idempotent webhook handling with row-level MySQL locking, preventing duplicate transaction processing across 50K daily transactions and achieving zero duplicate credits in 100 concurrent-update load tests.
- Optimized high-volume transaction queries with pagination, reducing large-range search response times from 5-10s to under 3s for 800+ transaction datasets.
- Deployed services across 5 PM2 worker processes on EC2, sustaining 25+ req/s with 99% uptime.

Software Engineer Intern, AirFleet Managers

Feb 2025 – Aug 2025

Tech Stack: React, Node.js, Express.js, MongoDB, Redis, Docker, AWS EC2, S3, PM2, Nginx

Gurugram, Haryana

- Shipped maintenance-tracking and collaboration features used by 50+ airlines/MROs to manage 100+ active aircraft projects.
- Implemented RBAC across 7 distinct user roles, gating access to sensitive data across 50+ protected modules.
- Automated PDF/PPT/Excel reporting across 10+ report templates, replacing a manual process that previously took 5 hours.
- Launched the platform on EC2 with Nginx/PM2 and S3 pre-signed URLs, storing 2K+ documents and cutting deployment time from 15 minutes (manual) to 2 minutes via GitHub-based workflows.

Web Developer Intern, Sanrachna Foundation

Jun 2024 – Jul 2024

Technologies: React, Node.js, Express.js, MongoDB, REST APIs, Tailwind CSS, WordPress

South West Delhi, Delhi

- Rebuilt the site's frontend in React across 500+ research paper pages, Improved site performance (Lighthouse score 55 to 95).
- Streamlined publication workflows for a 1,000+ monthly user research portal, increasing return visits by 50% over 1 month, measured via Google Analytics.

Projects

Agentic RAG Document Intelligence | Node.js, Express, React, PostgreSQL, pgvector, Gemini API, Docker

- Built a full-stack, multi-tenant RAG system that ingests PDF documents, splits content into overlapping chunks, generates 384-dimensional local embeddings using all-MiniLM-L6-v2, and stores vectors in PostgreSQL with pgvector.
- Developed 5 REST endpoints for document lifecycle management, tested with 5 concurrent user sessions maintaining full workspace isolation.
- Engineered top-3 cosine-similarity retrieval feeding Google Gemini, achieving 95% of answers grounded in relevant source chunks.
- Containerized a 3-service stack with Docker Compose, reducing local environment setup from 4 manual steps to a single command.

Technical Skills

Languages: TypeScript, JavaScript, Java, Python

Backend & APIs: Node.js, Express.js, NestJS, Spring Boot, REST API design, Webhook processing, Swagger/OpenAPI

Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis, pgvector

Security & Access Control: RBAC, Session/JWT-based authentication, Payload encryption/decryption

Cloud & Infrastructure: AWS (EC2, S3), Docker, Docker Compose, GitHub Actions, Nginx, PM2, Linux

Frontend: React.js, Next.js

Applied AI: RAG pipelines, vector embeddings, LLM-integrated document retrieval (Gemini API)

CS Fundamentals: OOP, Data Structures & Algorithms, Operating Systems, Database Design, Computer Networks