Adil Shaikh

Software Developer | Product Engineer
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Skills

Languages	JavaScript, TypeScript, Java, Python
Backend	Node.js, Express.js, Fastify, Spring Boot, REST, WebSocket, Socket.io, gRPC
AI & LLMs	AI Agents, Tool Calling, RAG Pipelines, Vector Search, Claude Code, OpenCode
Frontend	React.js, Next.js
Databases	PostgreSQL, MongoDB, Redis, Mongoose, Prisma, Connection Pooling
DevOps and Cloud	Docker, GitHub Actions, GCP, Vercel, PM2, Linux, JWT, OAuth2

Experience

- **Fuzen.io** — Nashik, India
  Software Developer (Full-time) — Aug 2024 - Sep 2026
  Technologies: Node.js, TypeScript, Java, Spring Boot, PostgreSQL, Redis, Docker
  - Designed a **Retrieval Augmented Generation (RAG) pipeline** using **Node.js Transform streams** to process **10,000+ scanned documents**. Piped Google Vision API OCR output through cleaning stages, generated embeddings via **Gemini text-embedding-004**, and stored vectors in **MongoDB Atlas Vector Search** for accurate search and AI answers.
  - Built **secure payment processing modules preventing duplicate transactions** for Tkambio USA integrated with MONEX USA APIs. Implemented **PostgreSQL advisory locks** for transaction safety, **Redis-cached** real-time foreign exchange rate feeds across **10+ currency pairs**, and safe payment settlements with automatic rollback on failure.
  - Built a **plugin-based workflow execution engine** in Node.js with **10+ automation blocks**, each running as an isolated async function. Integrated Twilio, WhatsApp Business API, Google Sheets, and AWS S3. Deployed with **Docker and GitHub Actions** using zero-downtime rolling updates via **PM2 cluster mode**.
  - Developed a **multi-tenant CRM** with **isolated PostgreSQL schemas** for each client. Implemented **JWT role and permission middleware**, WhatsApp Business API and Meta Ads webhooks with **secure signature verification**, and a real-time analytics dashboard using **MongoDB aggregation pipelines**.
  - Built event-driven clinical workflows for OABS supporting **200+ monthly sessions**. Used **Node.js EventEmitter** for async AI summary generation, enforced **role-based access control (RBAC)** across patient, therapist, and admin roles with **JWT middleware guards**, and automated Google Meet scheduling via Calendar API.
  - Built an end-to-end manufacturing ERP covering price quotes, sales orders, work orders, shop-floor tracking, and invoicing. Integrated QuickBooks APIs for financial accounting using **PostgreSQL transactions** to ensure consistent order states.

- **YBI Foundation** — Remote
  Data Science Intern — May 2024 - Sep 2024
  - Built a retail sales forecasting model using **Random Forest and XGBoost** on two years of historical data, with feature engineering on seasonality and promotions. Validated via cross-validation with **MAE** as the primary metric.

Projects

- AI Procurement Agent (Node.js, LangChain/LlamaIndex, Vector DB, RAG, Gemini/OpenAI, Gmail API) — Jul 2026
  Engineered an AI procurement agent using **OCR, LLMs, embeddings, vector databases, and RAG** to analyze historical invoices, quotations, and material lists. Built document processing, semantic search, and supplier price-matching pipelines, with **tool-calling agents** integrated via **Gmail API** to automate quote analysis, RFQ generation, and email follow-ups.

- MoonLane (Hono, Node.js, Next.js, TypeScript, Sharp, Redis, Linux) — Jun 2026
  Built and scaled backend services to **15K+ signups and 1K+ DAU**. Implemented **rate limiting, Redis caching, feed-ranking algorithms, pagination, query optimization**, and an automated image processing pipeline using **Sharp** for multi-resolution compression and optimized CDN delivery.

- Solar Labs (Node.js, Express.js, MongoDB, Redis, JWT, GCP, Next.js) — Jan 2026
  Built a solar business management platform with **JWT role access control**, project workflow tracking, vendor and inventory management, **Redis-cached dashboard queries**, and **GCP push notifications** for real-time mobile updates.

- Carbon Market Network (Node.js, PostgreSQL, Redis, JWT, Next.js) — Feb 2026
  Built the backend API for a carbon market intelligence platform covering content discovery, **JWT authentication**, **PostgreSQL full-text search with tsvector indexing**, and **Redis caching** for high-traffic endpoints.

Education

- **DY Patil University** — Pune, India
  Master of Computer Applications; CGPA: 7.8 — Sep 2022 - June 2024

- **SavitriBai Phule Pune University** — Nashik, India
  Bachelor of Computer Applications; CGPA: 8.7 — July 2019 - June 2022

Certificates

- Harvard: Web Programming with Django and JavaScript
- Google: Google Analytics
- Accenture: Data Analytics and Visualization