

MANUJ RAI

Backend Software Engineer | Python · FastAPI · REST APIs · PostgreSQL · AI

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PROFESSIONAL SUMMARY

Backend-focused Software Engineer with nearly two years of experience building production web services, REST APIs, and data pipelines. Strong in Python (FastAPI, Selenium, Playwright, Pandas) and C# / ASP.NET Core, backed by deep SQL Server and PostgreSQL skills. Shipped an Azure OpenAI integration that masks sensitive financial data in a high-traffic news pipeline, and built a RAG-grounded chatbot on FastAPI deployed to Render. Currently going deeper into AI engineering — LangChain, RAG, agents, and text-to-SQL — through a company-sponsored Python program. Comfortable owning features end-to-end, from schema design and API contracts to deployment.

TECHNICAL SKILLS

Languages	Python, C#, SQL, TypeScript, JavaScript, HTML5, CSS3
Backend & APIs	FastAPI, ASP.NET Core, ASP.NET MVC, .NET 6.0, REST APIs, Node.js, Express.js, Authentication & Authorization
AI & Automation	Azure OpenAI, OpenAI API, RAG pipelines, LangChain, AI agents, text-to-SQL, Selenium, Playwright, Requests, Pandas
Databases	PostgreSQL, SQL Server, T-SQL, Supabase, Stored Procedures, Query Optimization, Schema Design
Cloud & Deployment	Render, Supabase Edge Functions, Vercel, IIS, Azure OpenAI Service
Frontend	React.js, Angular, Vite, Tailwind CSS, Progressive Web Apps
Tools & Practices	Git, GitHub, Visual Studio, VS Code, Postman, Agile/Scrum, code review, MVC architecture, CRUD, web scraping

PROFESSIONAL EXPERIENCE

Junior Software Engineer — Fibre2Fashion

Feb 2025 – Present | Ahmedabad, India

Global B2B textile and fashion platform serving millions of users across 190+ countries.

- Design and ship backend services and REST APIs on ASP.NET Core (C#) and Python across inventory, news, trade fair, and authentication modules.
- Built an Azure OpenAI integration in .NET 6.0 that automatically detects and masks sensitive financial figures in paid news submissions before publication, eliminating a manual editorial step on a high-traffic pipeline.
- Delivered end-to-end Corporate Team Management — REST APIs, PostgreSQL/SQL Server schemas, invite and activation flows, and payment workflows — for B2B clients managing seat-based subscriptions.
- Author and tune SQL Server stored procedures, schemas, and queries supporting large-scale reads and complex multi-result-set reports; refactored legacy procedures to modern table-valued parameter patterns for reliability and maintainability.
- Selected for a company-sponsored, stipend-backed Python program covering production Python, LangChain, RAG, AI agents, and text-to-SQL — applied directly to internal AI features.
- Build Python automation: data-cleaning pipelines, Excel-to-SQL Server import tools (Pandas + Tkinter), and Selenium / Playwright / Requests scrapers for trade-fair exhibitor data with auth, pagination, and dynamic content.

IT Intern — Fibre2Fashion

Jul 2024 – Jan 2025 | Ahmedabad, India

- Completed structured training in ASP.NET, C#, and advanced SQL Server (stored procedures, indexing, query plans) before being absorbed full-time.
- Wrote Python scrapers using Playwright, Requests, and Selenium to extract exhibitor and supplier data from trade-show portals, handling authentication, pagination, and dynamic JS-rendered pages.
- Built Pandas pipelines to clean messy Excel datasets and bulk-import them into SQL Server, replacing manual upload workflows.
- Shipped an internal Inquiry Management System (ASP.NET / C#) adopted by internal teams to track and respond to client inquiries.
- Contributed components, API integrations, and bug fixes to an Angular-based news portal in production.

PROJECTS

RAG-Grounded AI Chatbot & Developer Portfolio

Live demo

Python, FastAPI, OpenAI API, PostgreSQL (Supabase pgvector), Render, React, TypeScript

- Built a **FastAPI** backend service exposing a streaming chat REST endpoint, deployed on **Render**, that answers questions about my work using a Retrieval-Augmented Generation pipeline.
- Designed an embeddings pipeline that chunks blog posts and project content, generates OpenAI embeddings, and stores them in PostgreSQL on Supabase for vector similarity search.
- Implemented server-side streaming responses, CORS, environment-based config, and request validation on FastAPI; integrated with a React/TypeScript frontend.
- Added secure authentication, role-based access, and CRUD APIs for managing blog posts and projects from a custom admin panel.

Full-Stack E-commerce Platform

Live demo

PostgreSQL, Supabase Edge Functions, Razorpay, React, TypeScript

- Designed a normalized **PostgreSQL** schema with row-level security for products, orders, addresses, wishlists, and order history.
- Built serverless backend endpoints on **Supabase Edge Functions** for Razorpay payment intent creation, server-side order verification, webhook handling, and Cash-on-Delivery flows.
- Implemented a coupon and discount engine supporting percentage, flat, and minimum-cart-value rules with usage limits and expiry handling.
- Modeled an order lifecycle (pending, confirmed, shipped, delivered, cancelled, refunded) with status-change email notifications and an admin panel for product, inventory, order, and customer management.

EDUCATION & CONTINUED LEARNING

Bachelor of Business Administration — Computer Applications

2024

Savitribai Phule Pune University — Pune, India

Company-Sponsored Python & AI Engineering Program — Fibre2Fashion

2025 – Present

Production Python, FastAPI, LangChain, RAG pipelines, AI agents, and text-to-SQL — stipend-backed, applied to live internal features.