

Tejas Jagdale

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Summary

Backend Developer with 1+ year of hands-on experience building backend systems, microservices, and AI-powered products across Python, TypeScript, FastAPI, Hono, PostgreSQL, Redis, and AWS. Independently built a multi-agent startup validation system and developed core, notification, media, tracking, and internal backend services, with experience taking features from implementation through integration with frontend and product requirements.

Technical Skills

- **Languages:** Python, TypeScript, SQL
- **Backend Development:** FastAPI, Hono, REST APIs, AsyncIO, WebSockets, Socket.IO, SQLAlchemy, Alembic, Pydantic
- **AI & Generative AI:** LangChain, LangGraph, OpenAI API, xAI API, Multi-Agent Systems, Tool Calling, Web Search Tools, Structured Outputs, Prompt Templates, Langfuse
- **Databases & Storage:** PostgreSQL, Redis, MongoDB, Supabase, AWS S3, MinIO
- **Auth & Security:** JWT, JWE, OAuth2, RBAC, Password Hashing, Token Rotation
- **Cloud & Infrastructure:** AWS EC2, AWS S3, AWS RDS, Nginx, Linux, Docker, Docker Compose
- **Tools & Concepts:** BullMQ, Celery, GitHub Actions, Git, Postman, Microservices, Caching, Rate Limiting, API Versioning, Database Indexing, Query Optimization

Work Experience

- **Backend Developer** — Andro Buddy Technologies Pvt. Ltd., Pune *Aug 2025 – Sep 2026*
 - Built and maintained backend APIs and microservices using FastAPI, Hono, PostgreSQL, Redis, and TypeScript, including core, notification, media, tracking, and internal API functionality.
 - Independently developed the multi-agent backend for an AI startup validation product using LangChain and LangGraph, covering question generation, web research, and report generation with OpenAI/xAI APIs.
 - Developed a real-time tracking microservice using Hono and Socket.IO and built notification processing using BullMQ and Redis for asynchronous event handling.
 - Improved API performance using Redis-based caching and SlowAPI rate limiting, achieving sub-50 ms response times on most tested APIs; also worked on database indexing and query optimization.
 - Implemented secure authentication and authorization using JWT, JWE, RBAC, and token-based access control, and integrated AWS S3 for application storage requirements.
 - Worked across backend development, AI integration, service integration, and frontend/product collaboration to deliver application features.

Projects

Starts Club

Live Demo: startsclub.com

- Built the backend for an AI-powered startup validation platform using FastAPI and PostgreSQL, covering startup validation, market analysis, and business report generation.
- Independently implemented the LangChain/LangGraph workflow for question generation, web research, and report generation using OpenAI/xAI APIs, web-search tools, structured outputs, and PostgreSQL-backed state.
- Integrated Langfuse for workflow monitoring and collaborated across frontend and product requirements to integrate the backend into the platform.
- **Tech Stack:** FastAPI, PostgreSQL, LangChain, LangGraph, OpenAI, xAI, Langfuse

URL Shortener

GitHub | [API Docs](#)

- Developed and deployed a URL shortening service using FastAPI, PostgreSQL, Redis, Docker, Nginx, and AWS EC2, with Redis caching for fast redirect handling and reduced database load.
- Implemented JWT access/refresh authentication with HttpOnly cookies, URL analytics, expiration management, background processing, Docker Compose, and GitHub Actions for automated builds.
- **Tech Stack:** FastAPI, PostgreSQL, Redis, Docker, Nginx, AWS EC2, GitHub Actions

Multi-Vendor E-Commerce Backend — FastPik

GitHub

- Built a multi-vendor e-commerce backend with separate Admin, Vendor, and Customer modules using RBAC, covering product management, inventory tracking, order processing, and vendor onboarding.
- Designed PostgreSQL schemas using SQLAlchemy and Alembic migrations, integrated MinIO for product image storage, and containerized the application using Docker Compose.
- **Tech Stack:** FastAPI, PostgreSQL, SQLAlchemy, Alembic, MinIO, Docker Compose

Education

Master of Computer Applications (MCA) Institute of Management and Career Courses (IMCC), Pune, India	<i>2024 – 2026</i>
Bachelor of Computer Science (BCS) Shri Saibaba Senior College, Shirdi, India	<i>2021 – 2024</i>