

# Tushar Grover

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## PROJECTS

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### FastRouter | *Python, FastAPI, Docker, REST APIs, LLM SDKs*



- Engineered a unified AI API gateway using Python and FastAPI, standardizing requests across multiple LLM providers (OpenAI, Anthropic, Gemini) into a single, high-throughput endpoint.
- Developed a low-latency proxy and routing layer to handle complex API payload translations, ensuring seamless multi-model interoperability and decoupling clients from vendor-specific logic.
- Architected a centralized backend billing system with real-time usage tracking and credit management; containerized the entire microservices architecture using Docker Compose for scalable deployments.

### Askify | *NestJS, TypeScript, PostgreSQL, Qdrant, Redis, BullMQ, LangChain*



- Architected an advanced RAG (Retrieval-Augmented Generation) pipeline using LangChain and Qdrant, enabling highly accurate hybrid semantic search over complex PDFs, DOCX files, and large GitHub repositories.
- Built a fault-tolerant asynchronous backend with NestJS and BullMQ, implementing automated retry mechanisms and queue management for reliable, high-volume vector embedding tasks.
- Optimized AI context retrieval latency to sub-second levels by integrating intelligent Redis caching layers and optimizing relational queries in PostgreSQL.

### Shiply | *Bun, Hono, TypeScript, Redis, AWS S3, CI/CD*



- Developed a distributed CI/CD Platform-as-a-Service (PaaS) utilizing Bun and Hono, automating the continuous deployment lifecycle for modern web applications directly from Git repositories.
- Designed a scalable background job processing system utilizing Redis queues to manage and execute concurrent, high-throughput deployment worker builds efficiently.
- Engineered a custom high-performance reverse proxy integrated with AWS S3, dynamically routing custom subdomains and ensuring highly available, low-latency delivery of static assets.

### SkyVault | *TypeScript, Supabase, PostgreSQL, Drizzle ORM, REST APIs*



- Engineered a scalable cloud storage platform leveraging Supabase and PostgreSQL, implementing secure, user-specific storage buckets with robust role-based access control.
- Designed efficient database schemas and complex data fetching pipelines using Drizzle ORM to power real-time storage analytics and file management operations.
- Built resilient API routes to handle secure multipart file uploads and asset delivery, utilizing expiring pre-signed URLs to enforce strict data privacy and security.

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, SQL, JavaScript

**Frameworks & Libraries:** FastAPI, LangChain, NestJS, Express.js, Hono, Django, Node.js, Prisma, Drizzle ORM

**Infrastructure & Tools:** Docker, AWS (S3), Qdrant (Vector DB), Redis, PostgreSQL, Git, GitHub Actions, BullMQ, Bun

## EDUCATION

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**Dronacharya College of Engineering**

*Bachelor of Technology in Computer Science and Information Technology*

Gurugram, Haryana

*Oct. 2022 – Present*

## CERTIFICATIONS

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GitHub Foundations, Docker for Developers, AWS Essential Training, 100 Days of Code: The Complete Python Pro Bootcamp, Django Essential Training.