

Tushar Grover

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EDUCATION

Dronacharya College of Engineering

Bachelor of Technology in Computer Science and Information Technology

Gurugram, Haryana

Oct. 2022 – Present

PROJECTS

Askify | *Next.js, NestJS, TypeScript, PostgreSQL, Prisma, Redis, Bull, Qdrant, LangChain*



- Architected a RAG-based knowledge retrieval system for PDF/DOCX and GitHub repos, utilizing hybrid semantic search to significantly improve context relevance.
- Engineered a fault-tolerant backend using NestJS and BullMQ, implementing retry strategies to handle asynchronous vector embedding tasks reliably.
- Optimized retrieval pipelines with Qdrant indexing and Redis caching, ensuring sub-second latency for complex semantic queries.

Shiply | *Next.js, TypeScript, Bun, Hono, Redis, AWS S3, Clerk*



- Built a high-performance CI/CD PaaS utilizing Bun and Hono to streamline the build-to-deployment pipeline for modern frontend applications.
- Implemented a distributed build system using Redis queues to enable efficient concurrent processing of multiple deployment jobs.
- Designed a custom reverse proxy service on AWS S3 for dynamic subdomain routing, ensuring low-latency delivery of static assets.

SkyVault | *Next.js, TypeScript, Supabase, PostgreSQL, Drizzle ORM, Clerk*



- Developed a scalable cloud storage solution utilizing resumable multipart streams to support reliable uploads of large media files.
- Optimized database interactions using Drizzle ORM and PostgreSQL indexing to minimize query execution time and enhance system responsiveness.
- Integrated real-time analytics and implemented aggressive edge-caching strategies to optimize content delivery and reduce server load.

Genie | *Next.js, TypeScript, NeonDB, Vercel AI SDK, Next Auth*



- Engineered a unified AI interface aggregating 3+ LLM providers (OpenAI, Gemini, Llama), effectively decoupling the application from single-vendor dependencies.
- Implemented a serverless token-bucket rate limiting system with NeonDB, ensuring fair usage and protecting API quotas under load.
- Optimized response streaming via Vercel AI SDK to deliver near-instantaneous Time-to-First-Token (TTFT) for a seamless conversational experience.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, HTML/CSS

Frameworks, Libraries: Next.js, React, NestJS, Express.js, Hono, Fast API, Drizzle ORM, Prisma, Mongoose, LangChain, Tailwind CSS, Material-UI

Developer Tools, Platforms: Git, Vercel, AWS, Supabase, Redis, Bull, Docker, Node.js, Bun, Clerk, Postman, Qdrant

OPEN SOURCE

Contributed to the open-source community, engaging in code improvements, issue resolution, and documentation updates for development tools and libraries.

CERTIFICATIONS

React Essential Training, Express Essentials, TypeScript Essential Training, The Complete Python Pro Bootcamp.