ANISH VINAYAK

JUNIOR BACKEND & FULL-STACK DEVELOPER

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PROFESSIONAL SUMMARY

Entry-level software engineer specializing in high-performance backend architectures and full-stack web applications using **Node.js, TypeScript, Next.js, and PostgreSQL**. Hands-on experience engineering scalable systems featuring **distributed cache-aside routing, automated task queues, and custom API gateway architectures**. Proven track record designing rate-limited pipeline layers and persistent analytical engines. Seeking a junior backend or full-stack role to build production-grade systems.

TECHNICAL SKILLS

Languages:	JavaScript (ES6+), TypeScript, SQL (PostgreSQL, MongoDB), HTML5, CSS3
Backend & ORM:	Node.js, Express.js, RESTful APIs, Auth.js (NextAuth), Prisma ORM
Caching & Queues:	Redis (Distributed Caching, Request Throttle & Token-Bucket Rate Limiting), BullMQ
Infrastructure & Tools:	Docker, Docker Compose, Git, GitHub Actions, Linux Shell, Vercel, Bun

TECHNICAL PROJECTS

Apiflow — API Gateway & Management Platform

Next.js, TypeScript, Prisma, PostgreSQL, Redis

Live Deployment: https://apiflow-dev.vercel.app

- **Core Gateway Integration:** Architected a reverse-proxy gateway pipeline handling request proxying, secure dynamic API-key parsing, validation, and programmatic key revocation.
- **Performance Tuning:** Implemented an in-memory **Redis cache-aside layer** coupled with custom token-bucket **rate limiting** to safeguard upstream client APIs from traffic spikes and minimize structural latency.
- **Analytics Observability:** Developed a telemetry logging sub-system to index and record live usage statistics including total requests, execution latency distributions, success rates, and response errors.

SnapLink — Asynchronous URL Shortener

Next.js, TypeScript, PostgreSQL, Prisma, Redis, BullMQ, Docker

Live Deployment: https://snaplink-url.vercel.app

- **Distributed Redirection:** Engineered low-latency redirection flows serving persistent keys backed by high-speed Redis lookup indices, falling back on indexed PostgreSQL transactional database schemas.
- **Decoupled Job Workers:** Isolated heavy analytical computations from synchronous request-response execution boundaries using **BullMQ background consumer workers** for non-blocking analytical streams.
- **Containerized Isolation:** Packaged multi-service local architectures into predictable network contexts using **Docker Compose** across modular load-tested database and worker application nodes.

FlowLedger — Authenticated Expense Dashboard

Next.js, TypeScript, Prisma, PostgreSQL, Auth.js, Tailwind CSS

Live Deployment: https://flowledger.vercel.app

- **Stateful Sessions:** Integrated secure token-based and cookie session validation strategies leveraging **Auth.js** to insulate private user records down to relational database access points.
- **Optimized Aggregations:** Hand-crafted performant SQL queries using Prisma ORM to aggregate financial transactions dynamically across reactive dashboard trend lines.

EDUCATION

Bachelor of Science (B.Sc.) in Data Science — *Currently Pursuing*