

# Varun Hotani

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## EDUCATION

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### Ahmedabad University

Bachelor of Technology in Computer Science

Ahmedabad, Gujarat

August 2024 – May 2028

### Vedant International School

High School

Ahmedabad

Aug 2022 – May 2024

## EXPERIENCE

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### Backend & DevOps Engineer

August 2025 - Present

*DynTech — Remote*

- Built scalable trading infrastructure with MT5 integration, high-frequency APIs, NestJS services, and realtime WebSocket streaming
- Designed a gRPC + Kafka **event-driven microservices architecture** using NestJS, PostgreSQL, Redis, and optimized DB performance with pgBouncer pooling
- Developed a low-latency MT5 Copy Trader system and improved PostgreSQL query performance by **60%**
- Owned DevOps stack with Jenkins, Docker, Kubernetes, Prometheus, and Grafana for CI/CD and observability

## PROJECTS

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**Tiny** | *Go, gRPC, PostgreSQL, Redis, ClickHouse, Kafka, ArgoCD, Kubernetes, Prometheus, Grafana* [GitHub](#)

- Engineered a microservices-based URL shortener handling **1M+ concurrent requests**, reducing redirect latency via **Redis caching** and read replicas
- Designed an event-driven analytics pipeline using Redis Streams and ClickHouse for real-time click tracking
- Implemented gRPC-based services and a REST API gateway for efficient communication and URL management
- Built Snowflake ID generation, TTL-based expiration with cleanup workers, and PostgreSQL replication for fault-tolerant storage
- Developed JWT-based authentication, QR code generation, and a TUI client for streamlined user interaction

**CDeX** | *NestJS, gRPC, Kafka, Redis, PostgreSQL, MongoDB, Kubernetes, Jenkins, Prometheus, Grafana* [GitHub](#)

- Built a cloud-native NestJS + gRPC platform scaling to **1M+ req/sec** with **1K+ active users**
- Designed a **Kafka-based event-driven architecture** for submissions, judging, and scoring
- Implemented API Gateway with REST → gRPC routing, JWT auth, and realtime WebSockets
- Integrated Judge0 for sandboxed code execution; added pgBouncer for DB pooling and Redis locks for concurrency control
- Deployed on Kubernetes with HPA autoscaling and CI/CD via GitHub Actions, Jenkins, and ArgoCD

## TECHNICAL SKILLS

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**Languages:** Golang, TypeScript, SQL

**Frameworks & Runtimes:** Gin, Express.js, Nest.js, Next.js

**Databases:** PostgreSQL, MongoDB, MySQL

**Technologies:** REST APIs, gRPC, GraphQL, Mongoose, TypeORM

**DevOps & Tools:** Docker, Kubernetes, Prometheus, Grafana, GitHub Actions, GitLab CI/CD, ArgoCD, Jenkins

## LEADERSHIP & VOLUNTEERING

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- Volunteer at SAHAAY Foundation: Conducted math lessons for 6th-grade students for 30+ hours
- Event Co-Coordinator, Rangmanch Ki Udaan: Managed auditions and practices for annual cultural event