

SHRESHTH VERMA

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Built systems handling 20K+ daily jobs — 1K+ users — Reduced API latency by up to 60%

INTRODUCTION

Backend-focused Full-Stack Developer with experience building and scaling production systems serving 1K+ users.

Improved API latency by up to 60%, processed 20K+ daily tasks, and deployed scalable systems using AWS, Docker, and PostgreSQL.

EDUCATION

Bachelor of Engineering Computer Science, Chitkara University

Expected 2026

SKILLS

Languages	TypeScript, JavaScript, Go, Python
Frontend	React.js, Next.js, Tailwind CSS
Backend	Node.js, Express.js, PostgreSQL, MongoDB, Redis
DevOps & Tools	Docker, AWS (EC2, Lambda, S3), Nginx, PM2
Other	Git, Linux, Bash Scripting

EXPERIENCE

Pnacademy (Freelance)

June 2024 - Dec 2024

- Built and deployed backend services serving **1,000+ monthly active users** using Node.js, TypeScript, PostgreSQL, and Redis.
- Reduced search latency from **800ms to 200ms (75%)** using PostgreSQL full-text search (tsvector).
- Improved API response times by **40–60%** using Redis caching, reducing database load.
- Designed reusable repository pattern, reducing duplicate data-access code by **35%**.
- Implemented secure JWT authentication and RBAC for **3+ user roles**.
- Integrated AWS S3 uploads handling **500+ files/day** with pre-signed URLs.
- Deployed Dockerized services on AWS EC2 with Nginx and SSL, achieving **99%+ uptime**.
- Built AWS Lambda webhook automation reducing manual work by **90%**.

Yes Madam (Freelance)

Jul 2025 - Aug 2025

- Engineered a background job processing **20K+ image requests daily** for employee compliance verification.
- Integrated Inngest for retries, throttling, and queue management.
- Dockerized application for scalable deployment.

PROJECTS

Timbre — Voice AI Platform [\[Live\]](#)

- Built a real-time voice AI platform to deploy conversational agents on websites with a single script tag.
- Implemented sub-500ms voice-to-voice latency using WebRTC, streaming STT (Deepgram), LLM (OpenRouter), and TTS (Cartesia).
- Designed extensible agent architecture with knowledge bases (RAG via pgvector), MCP tool integrations, and HTTP function calling.

- Developed scalable backend using Hono (Bun), Supabase Postgres, and LiveKit for real-time communication.

DB Stencil [\[Live\]](#)

- Built a visual database schema platform with **500+ users** enabling real-time schema design and code generation.
- Implemented **50+ schema operations** including tables, relationships, indexing, and constraints.
- Generated DBML, Prisma, Drizzle, and SQL DDL automatically.
- Designed state synchronization system for persistent diagram and schema management.

Node Rizz [\[GitHub\]](#)

- Built an AI-powered backend generator converting natural language into deployable APIs.
- Integrated Node-RED and Python models for dynamic backend generation.

ACHIEVEMENTS

- Winner at **Chitkara Sandbox 2.0** hackathon - March 2024.
- Winner at **Shopclues Smart Cataloging** hackathon - March 2024.