Love Singhal

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EDUCATION

Institute of Engineering & Technology, DAVV, Indore, India
B.Tech in Computer Science & Engineering   2024 – 2028
GPA: 7.82

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), Python, C++, SQL, Bash
Backend & Systems: Node.js, Express.js, REST APIs, event-driven systems
Databases: PostgreSQL, MongoDB, Redis
Real-time Systems: WebSockets, Redis Pub/Sub
Authentication & Security: JWT, OAuth, role-based access control, OTP-based authentication
DevOps & Tooling: Docker, Git, Linux, CI-oriented workflows
Data Modeling: Relational schema design, indexing, query optimization
ORMs & Validation: Prisma ORM, Zod

OPEN SOURCE & RESEARCH READINESS

- Comfortable navigating large codebases and understanding existing architecture through documentation and source code.

- Experienced in writing modular, maintainable code with clear separation of concerns and defensive validation.

- Familiar with asynchronous collaboration via issues, pull requests, and technical discussions.

EXPERIENCE

Independent Software Developer — Backend & Full-Stack   2024 – Present
Remote

- Developed backend-focused systems emphasizing authentication flows, API design, and data integrity.

- Executed reusable infrastructure for role-based access control, real-time messaging, and secure media uploads.

- Designed and maintained relational and NoSQL schemas with validation and query optimization.

SELECTED ENGINEERING PROJECTS

Real-time Chat System
Built a real-time messaging backend using an event-driven architecture and Redis caching. Enforced secure access through OAuth-based authentication and role-based authorization.
Tech: Next.js, TypeScript, Redis, PostgreSQL, Pusher, NextAuth.js

Jansunwai — Civic Grievance Platform
Developed a backend-centric grievance redressal system with structured workflows and normalized PostgreSQL schemas using Prisma ORM.
Tech: Express.js, TypeScript, PostgreSQL, Prisma

Media Upload & Processing Platform
Applied a secure direct-to-cloud media upload pipeline with JWT-protected metadata APIs and strict schema validation.
Tech: Next.js, TypeScript, MongoDB, Zod

Thryve — Mental Health Platform
Contributed backend modules for authentication, screening data, and appointment workflows while enforcing role-based access control.
Tech: Node.js, Express.js, MongoDB, JWT