Love Singhal

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EDUCATION

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

TECHNICAL SKILLS

- **Languages**: TypeScript, JavaScript (ES6+), Python, C++, SQL, Bash

- **Backend & Systems**: Node.js, Express.js, REST APIs, Event-driven systems

- **Databases & Storage**: PostgreSQL, MongoDB, Redis

- **Realtime & Messaging**: WebSockets, Redis Pub/Sub

- **Auth & Security**: JWT, OAuth, RBAC, OTP-based authentication

- **DevOps & Tooling**: Docker, Git, Linux, CI-friendly workflows

- **Data Modeling**: Relational schema design, indexing, query optimization

- **Validation & ORMs**: Prisma ORM, Zod

OPEN SOURCE & RESEARCH READINESS

- **Open Source Familiarity**: Comfortable working with large codebases, reading existing architecture, following contribution guidelines, and collaborating through issues, discussions, and pull requests.

- **Engineering Practices**: Experience writing modular, maintainable code with clear separation of concerns, schema validation, and role-based authorization.

- **Learning & Documentation**: Able to quickly understand unfamiliar systems through documentation, source code, and RFC-style design discussions.

SELECTED ENGINEERING PROJECTS

- **Realtime Chat System**: Designed and implemented a realtime messaging backend supporting private and group conversations. Built event-driven message delivery using Pusher and optimized read performance using Redis caching. Implemented OAuth-based authentication and RBAC to secure message access.
  Tech: Next.js, TypeScript, Redis, Pusher, PostgreSQL, NextAuth.js

- **Jansunwai — Civic Grievance Platform**: Engineered a backend-heavy grievance redressal system with role-based workflows for citizens and administrators. Designed normalized PostgreSQL schemas using Prisma ORM and implemented secure complaint lifecycle management.
  Tech: Express.js, TypeScript, PostgreSQL, Prisma

- **Media Upload & Processing Platform**: Built a secure media upload pipeline using direct client-to-cloud uploads to reduce backend load. Designed JWT-protected APIs for metadata persistence and validation, focusing on correctness and scalability.
  Tech: Next.js, TypeScript, MongoDB, Zod

- **Thryve — Mental Health Platform (SIH 2025)**: Contributed to backend modules handling authentication, screening data, and appointment workflows. Implemented OTP-based login and role-based access control for administrators and practitioners.
  Tech: Node.js, Express.js, MongoDB, JWT