

Harsh Kumar Chugh

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SUMMARY

Software Engineer specializing in MERN Stack and Next.js expert with 1.5 years of experience building scalable, production-ready web applications. Rapidly promoted from Intern → Associate → Software Engineer for delivering high-impact backend solutions. Skilled in API design, database optimization, and leveraging AI-assisted development to create secure, efficient, and maintainable software.

TECHNICAL SKILLS

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

Frameworks & Libraries: Node.js, Express.js, React.js, Next.js, Redux

Databases: Supabase (PostgreSQL), MongoDB, MySQL

ORM & Validation: Prisma ORM, Zod, Yup

Cloud & Tools: Vercel, Git, GitHub, Stripe, LogRocket, Mixpanel, Resend, Postman, VS Code IDE

Concepts: RESTful APIs, E2EE, MVC Architecture, Authentication (JWT), Database Architecture & Designing, AI-assisted Development

PROFESSIONAL EXPERIENCE

Software Engineer, Brainspack, Sept 2025 – Present

Associate Software Engineer / Intern , Brainspack , Jun 2024 – Aug 2025

PROJECTS

Emotional Wellbeing Toolkit

Technologies: Next.js, Supabase, Prisma ORM, TypeScript, Stripe, Resend, LogRocket, Mixpanel

- Architected and implemented backend systems supporting video content, end-to-end encrypted journaling, and several activities for user wellbeing.
- Designed database schema and APIs; improved query performance by 25%+ through indexing and optimization.
- Managed database migrations across local, staging, and live environments while maintaining data integrity.
- Developed timezone-aware dashboards for admin and users, and content progression logic to lock/unlock learning material.
- Integrated Stripe for subscription payments and E2EE across backend and frontend for secure data handling as per client requirements.

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Technologies: Next.js, Supabase, Prisma ORM, TypeScript, pgAdmin4

- Architected and implemented scalable RESTful APIs to support both web and mobile platforms, ensuring robust performance and maintainability.
- Designed and optimized database schemas with strategic indexing, reducing API response times by 40%+.
- Built full CRUD functionality for the admin panel, integrating APIs I developed for each feature using common, reusable components, improving development efficiency and code maintainability.
- Enforced best practices in type-safe development, error handling, and logging, enhancing overall system reliability and scalability

EDUCATION

Degree — B.Tech in Computer Science & Engineering — Kurukshetra University, S.I.E.T, 2022

Diploma — G.B.N Govt. Polytechnic Nilokheri, 2019