Noida
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# Aashna Sharma

Software Engineer

Portfolio: My Portfolio
GitHub: aashnasharma1
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## Summary

Full Stack MERN Engineer with 3+ years of hands-on experience building scalable, high-performance web applications using **React.js, Node.js, and MongoDB.** Proven track record in designing RESTful APIs, leading frontend modules, and delivering end-to-end features in agile environments.AI-native developer with daily active usage of Claude Code and GitHub Copilot as primary development tools — accelerating code generation, debugging, and architectural decision-making. Passionate about clean architecture, production-grade reliability, and building systems that solve real-world problems at scale. end

## Technical Skills

**Languages:** TypeScript, JavaScript (ES6+), HTML5, CSS3
**Frontend:** React.js, Redux Toolkit, Next.js, Tailwind CSS, SCSS, Webpack, NPM
**Backend & APIs:** Node.js, Express.js, RESTful API Design, JWT Authentication, OAuth
**Databases:** MongoDB (aggregation pipelines, indexing, schema design), MySQL
**AI Tools (Daily Use):** Claude Code, GitHub Copilot — code generation, debugging, documentation & architecture
**System Concepts:** Caching strategies (Redis), performance tuning (Web Core Vitals), debugging, API security

## Professional Experience

**Software Engineer** **August 2026 — Present**
*ControlPrint, Noida*

- Developed MERN applications for **QRiousCodes**, a specialized digital platform providing track-and-trace solutions, compliance-ready GS1 Digital Link QR codes, and business intelligence tools for supply chains.
- Contributed across the **full development lifecycle** — requirement analysis, solution design, React.js interface development, Node.js/Express.js API development, MongoDB integration, testing, debugging, and production delivery.
- Designed and implemented **RESTful APIs** using Node.js and Express.js for QR-code generation, product traceability, and supply-chain visibility workflows, including data processing, validation, and third-party integrations.
- Worked extensively with **MongoDB** for schema design, querying, indexing, and aggregation across product, QR, tracking, and analytics data, powering business intelligence dashboards.
- Implemented secure application patterns including **authentication, authorization, input validation, and role-based access control**, using **TypeScript** to reduce runtime errors and improve code quality.

**Full Stack Developer** **Mar 2025 — April 2026**
*AllHeart Web, Chandigarh*
*Remote*

- Collaborated closely with a team of **5 junior developers** managing frontend modules, conducting code reviews, and driving sprint planning to ensure timely, high-quality delivery.
- Owned **end-to-end feature development** from requirement gathering through deployment, improving development efficiency and delivery speed.
- Implemented **caching strategies and API performance optimizations**, reducing average API response time by **30%**.
- Integrated **third-party APIs and payment gateway services** with robust error handling, and implemented **JWT/OAuth authentication** with role-based access control across application modules.
- Worked extensively with **MongoDB**, building aggregation pipelines for data transformation, and championed **logging and monitoring mechanisms** to improve reliability and observability.

**Software Development Engineer Intern** **July 2023 — July 2024**
*CG Infinity, Noida*

- Developed an **IT Asset Management System** serving **500+ users** with a scalable React frontend and Node.js backend.
- Built and integrated **REST APIs** with robust error handling, data validation, and strong TypeScript typing.
- Improved application load time by **22%** through code splitting, lazy loading, and query optimization.
- Delivered **4 major modules end-to-end**, ensuring maintainable, well-documented, and scalable code.
- Reduced bug count by **18%** through clean coding practices, unit testing, and systematic debugging.
- Collaborated with **cross-functional teams** in an agile development workflow.

## Projects

**PhotoTools AI — AI Image Processing Platform** · **Live Demo**
*Next.js, TypeScript, Cloudinary AI, Clerk, Tailwind*

- Built an **AI-powered image editing platform** supporting background removal, generative fill, image enhancement, and image transformations using Cloudinary AI services.
- Implemented secure **OAuth-based authentication with Clerk** and integrated optimized media delivery through Cloudinary CDN transformations.
- Engineered responsive image processing workflows with **lazy loading and optimized media delivery** for fast, cross-device performance.

**GitPulse — GitHub Event Automation Platform** · **Live Demo**
*Next.js, TypeScript, Prisma, PostgreSQL, GitHub API, Slack, Groq*

- Built an event-driven **GitHub automation platform** that connects repositories, processes issues, pull requests, and CI/CD workflow events, and executes configurable actions such as labels, comments, and Slack alerts.
- Implemented production-grade **GitHub webhooks** with HMAC signature verification, delivery deduplication, event persistence, and idempotent processing to prevent duplicate actions.
- Developed **GitHub OAuth, repository management, rules engine, and Slack integrations** using Next.js API routes, Prisma, and PostgreSQL, with AI-powered issue and PR triage using Groq.

**InsightFlow — Customer Feedback Management Platform** · **Live Demo**
*Next.js, TypeScript, PostgreSQL, Prisma, NextAuth, Redis, Recharts*

- Built a full-stack **customer feedback management platform** with public feedback submission, protected admin dashboards, searchable feedback management, and analytics.
- Implemented secure **authentication and authorization** with NextAuth, email OTP verification, role-based access control, and protected API routes.
- Developed validated REST APIs using **Prisma, PostgreSQL, Zod, and React Hook Form**, with Redis-based rate limiting, structured logging, and analytics dashboards.

**AashTrack — AI-Assisted Productivity Suite** · **Live Demo**
*Next.js, TypeScript, Zod, Vitest, Tailwind CSS, @dnd-kit*

- Built a production-quality **task management platform** featuring drag-and-drop workflows, recurring tasks, filtering, sorting, search, kanban, timeline, timer, and resizable table views.
- Engineered a testable architecture using **React Context, useReducer, Zod validation, and domain-level scheduling logic**, with a conflict-aware scheduling engine for priority-based task allocation.
- Achieved **162 automated tests** with 76%+ statement coverage and implemented accessibility, localStorage validation, GitHub Actions CI, linting, formatting, and production build checks.

## Education

**Chitkara University** **Aug 2020 — Aug 2024**
*Bachelor of Engineering in Computer Science* *Punjab, IN*
CGPA: 9.56/10.0

**GMSSS-16** **Apr 2019 — Apr 2020**
*CBSE Class XII* *Chandigarh, IN*
Percentage: 91%

## CERTIFICATIONS

**Microsoft Azure Fundamentals (AZ-900)** **View Credential**

## Achievements

- Winner — **Great Indian Hackathon**
- Winner — **Solving for India Hackathon**