

# Harsh Rastogi

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## Experience

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**Modelia** | *AI-powered generative image and video platform*

*Remote*

**AI Product Engineer**

*Jun 2026 – Present*

- Leading **AI product direction and business strategy** while coding daily: ideating new tools, automating manual processes, and shipping features that drive measurable business growth
- Built AI video production tool for **commercial-ready content**: multi-clip generation with music, expanding platform from single-output to full creative pipeline
- Led **unification of two isolated platforms** into single synchronized system with cross-platform payments, shared generation history, and seamless user experience
- Designed **feature management system** replacing rigid sprint releases with continuous deployment via environment-based controls, enabling controlled rollouts and A/B testing
- Built per-tool **consumption analytics**; optimized AI infrastructure costs through intelligent caching and usage monitoring

**Full Stack Engineer**

*Jan 2026 – May 2026*

- Engineered full product platform: **generative AI image engine**, merchant-facing app, Studio creative tool, and internal systems serving hundreds of merchants, **thousands of AI images daily**
- Led **re-architecture of legacy codebase** into modular system within **35 days**: reduced client escalations by **over 95%**, drove revenue growth across 15+ person engineering team
- Built **secure media delivery** via Azure Blob proxy, **cross-platform credit sync** with PostgreSQL and Prisma, and real-time SSE with Redis pub/sub for horizontal scaling

**Asynq**

Gurugram, India

*Full-Stack Developer* | *AI-powered hiring automation platform*

*Jan 2025 – Dec 2025*

- Built core **AI hiring platform** from scratch: candidate scoring engine, bulk resume analysis pipeline, and **Agentic AI interviewer** with autonomous conversations via LLM integration
- Implemented **async job processing** with BullMQ and Redis caching, handling hundreds of concurrent analyses with **sub-second API response times**
- Architected backend in **TypeScript + tRPC** with end-to-end type safety, designed for non-technical recruiter usability

**Bharat Electronics Limited (BEL)**

Ghaziabad, India

*SDE Intern* | *Navratna Defence PSU, Ministry of Defence*

*Jul 2024 – Aug 2024*

- Built **Harvester HCI** interfaces for virtualized computing in defence-grade environments, improving efficiency by **45%**
- Developed Indian Airforce project interfaces using React and Ant Design, **reducing paperwork by 75%**

## Projects

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**SelfAgentic** | *Next.js, TypeScript, Node.js, LLM, Redis* | [selfagentic.in](https://selfagentic.in)

- Co-built **multi-agent AI orchestration platform** (closed beta): autonomous reasoning, inter-agent delegation, contextual memory, and real-time streaming with token-level granularity
- Implemented **Slack, Discord, Notion, and email integrations** with secure credential management and scheduled agent execution pipelines

**GyanSathi** | *Next.js, Node.js, PostgreSQL* | [gyansathi.com](https://gyansathi.com)

- Built **entire platform solo**: production LMS serving **5,000+ active learners** at CCS University with examination engine, certification, payments, and real-time analytics

## Technical Skills

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**Languages:** TypeScript, JavaScript, Python, Java, SQL, HTML/CSS

**Frontend:** React, Remix, Next.js, Tailwind CSS, Shopify Polaris, Ant Design

**Backend:** Node.js, Express, tRPC, REST APIs, GraphQL, BullMQ, Prisma ORM

**Databases:** PostgreSQL, MongoDB, Redis, Firebase, Supabase

**Cloud & DevOps:** Microsoft Azure, AWS, Docker, Nginx, PM2, CI/CD, Vercel, GitHub Actions

**AI & Systems:** Generative AI, Agentic AI, LLM Integration, System Design, Microservices, Event-Driven Architecture

## Publications

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“**Blockchain Technology in Bharat Judicial System: Imminent Revolution**”, IJRPR (Scopus-Indexed), 2025

“**Healthcare with Machine Learning: The Ease of Listening and Learning**”, Cambridge Scholars Publishing, 2025

## Education

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**Ajay Kumar Garg Engineering College**

*B.Tech, Information Technology*

Ghaziabad, India

*Sep 2021 – May 2025*