

# KARTIK TYAGI

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## SUMMARY

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Full-stack developer specializing in React.js and Node.js with experience building modern web applications. Seeking opportunities to contribute technical skills and grow in collaborative environments.

## SKILLS

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Programming Languages	JavaScript, TypeScript, C++
Frameworks & Libraries	React.js, Next.js, Node.js, Express.js, Hono, Tailwind CSS, Shadcn UI
Databases & ORMs	MongoDB, Mongoose, PostgreSQL, Prisma, Supabase
Developer Tools	Git, GitHub, Cloudflare Workers, Postman, Chrome Dev Tools, Vercel

## PROJECTS

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### Samik – Unified API Aggregation Platform [Live Demo](#)

- Built full-stack API integration middleware that aggregates 10+ concurrent third-party APIs into unified endpoints with Node.js + Express backend and Next.js frontend, reducing data integration complexity by upto 80%
- Engineered robust error handling and response normalization system with PostgreSQL + Prisma ORM, achieving 100% uptime using cron job
- Implemented concurrent API fetching with performance metrics while maintaining audit logs for debugging

### Podium – Content Management & Publishing Web App [Live Demo](#)

- Built a serverless full-stack publishing platform enabling article creation, editing, and content discovery; scaled to 6+ active users and onboarded 3 open-source contributors, iterating features through real user feedback.
- Designed REST API architecture using Cloudflare Workers and Hono framework, achieving sub-100ms response times for content operations with techniques like pagination
- Implemented PostgreSQL database schema with Prisma ORM for type-safe queries and automated migrations

### Nakshatra – NEOs Tracking & Analysis Platform [Live Demo](#)

- Engineered real-time asteroid monitoring system consuming NASA NeoWs API with automated data fetching
- Architected Next.js 15 application with Supabase for user authentication and session management
- Developed interactive data visualization dashboard using Recharts with custom filtering algorithms

### IDK – Deterministic Password Manager [Live Demo](#)

- Engineered a secure, client-side password manager leveraging deterministic password generation with PBKDF2 (SHA-256, 1000 iterations), eliminating the need for storage or sync
- Implemented input normalization (e.g., "GitHub" → "github") and reproducible hash-to-password conversion fully in-browser, ensuring zero data exposure and offline usability, built entirely in Next.js 15

### CSV2JSON – Multi-Format Data Transformation Tool [Live Demo](#)

- Developed client-side data processing application supporting conversion between CSV, JSON, and SQL INSERT formats with custom parsing algorithms handling edge cases like nested quotes and malformed data structures
- Built responsive React interface with file upload, real-time preview, and one-click download functionality

## EDUCATION

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Master of Computer Application, JSS Academy of Technical Education

2023 - 2025

Bachelor of Science (Computer Science), CCS University

2019 - 2022