

KARTIK TYAGI

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SUMMARY

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

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

PROJECTS

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
- Integrated JWT authentication system with middleware for secure route protection

Nakshatra – Asteroid 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 TypeScript, implementing Supabase for user authentication and session management
- Developed interactive data visualization dashboard using Recharts with custom filtering algorithms
- Optimized API response handling with debounced search and pagination

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

Thinky – Multi-Purpose AI Assistant Platform [Live Demo](#)

- Created AI-powered conversational interface with specialized modes for code assistance, general chat, and technical problem-solving with Cloudflare Workers + PostgreSQL in the backend and Gemini 2.0-flash integration

EDUCATION

Master of Computer Application, JSS Academy of Technical Education	2023 - 2025
Bachelor of Science (Computer Science), CCS University	2019 - 2022