

# GAGAN KUMAR

Portfolio : [thegagan-portfolio.vercel.app](https://thegagan-portfolio.vercel.app)

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## WORK EXPERIENCE

### Software Developer · Astra Security

Apr 2025 → Present

- Built real-time streaming UI for agent-based workflows using Next.js and Vercel AI SDK, enabling step-by-step execution visibility instead of blocking responses
- Developed frontend infrastructure for AI-driven systems, integrating agent execution flows into responsive, production-ready interfaces
- Led migration from Next.js 14 → 16, reducing bundle size by 50% and improving application performance and load times
- Optimized developer experience by transitioning from Yarn to Bun, significantly reducing local build and iteration time
- Took ownership of production stability, resolving 30+ P0 issues within the first month and stabilizing the system during high-frequency release cycles

### Software Developer · Dimension64 (Sarvantar AI)

Aug 2023 → Dec 2024

- Rebuilt a legacy Angular admin system into a responsive React + Next.js application, enabling workflows that were previously desktop-only to function reliably on mobile.
- Led the migration end-to-end: audited existing system, prioritised rewrite scope, and rolled out incrementally without disrupting active users.
- Developed core product features including a map-based vehicle search (Mapbox) and a reusable component system aligned with product needs.
- Worked closely with stakeholders to translate operational requirements into stable UI flows under evolving requirements.

### Software Development Intern · EXL Service

Feb 2023 → Aug 2023

- Built an internal hiring platform with .NET Core backend and Tailwind UI frontend, used for managing candidate pipelines.
- Designed recruiter workflows and dashboards to replace manual tracking with structured stages and visibility into bottlenecks.
- Collaborated with senior engineers to establish patterns that could be extended after handoff.

## EDUCATION

### Masters in Computer Applications

Graduated in 2023 with Web Technologies as specialization  
PES University, Bengaluru

### Bachelor of Computer Applications

Graduated in 2021  
Vivekananda Institute of Management, Bengaluru

## SKILLS TRIDENT

### Core Expertise

React 19 Next.js 16  
Javascript/Typescript Motion  
TanStack Query/Table  
Zustand shadcnUI/Radix UI  
React hook form Zod  
Bun/PNPM

### AI & Agentic

Mastra AI Vercel AI SDK  
Agentic Workflows  
Streaming UI LLM Tool Use  
Multi-step Agents

### Backend & Data

Node.js Firebase Redis  
REST APIs MongoDB  
WebSockets  
System Design Basics

### Infra & Tooling

Git & GitHub Docker  
Vercel Sentry Linear  
Jira Apidog

### Design & Product

Figma UX Thinking  
Responsive Design  
UI Design Systems

## CURRENTLY EXPLORING

AI agent orchestration patterns  
Design System  
Streaming UI with Vercel AI SDK

## PERSONAL PROJECTS

### Triboon: Project Management Solution · [Live ↗](#)

- Built solo as final-year Masters project - full-featured project management app with task creation, assignment, role-based analytics dashboards, and a real-time group chat per project.
- Implemented Firebase Realtime Database for live messaging and Firestore for task/project state - users see updates instantly across sessions without page refresh.
- Built image upload for task attachments via Firebase Storage; role-aware dashboard surfaces different analytics views for admins vs members.
- First production React app - deliberately chose a complex domain to learn state management, async data patterns, and real-time sync under real constraints.

### RapidLogr: Logs Exploration Tool · [Live ↗](#) · [Github ↗](#)

- General-purpose log exploration tool with server-side filtering - search, severity filter, and date range queries all execute on the server, not the client, keeping performance consistent at scale.
- URL state sync throughout - every filter and pagination state is reflected in the URL, making log views shareable and bookmarkable with zero extra effort from the user.
- Fully responsive layout; built to work as well on a phone during an incident as on a wide desktop monitor.

### Hirelink — Hiring Tracking Portal

- Internal hiring portal built at EXL Service tracking candidates across a structured 5-stage pipeline — application, screening, interview, offer, and onboarding.
- Recruiter dashboard surfaces per-stage candidate counts, status history, and bottleneck visibility; designed to replace manual spreadsheet tracking.
- Full .NET Core MVC backend with Tailwind-powered responsive UI — first full-stack project bridging both backend business logic and polished frontend delivery.

## PERSONAL WORKS & VOLUNTEER EXPERIENCE

Worked as a freelance graphic designer for local startups and vendors, by crafting impactful logos, business cards, brochures, billboards, and flyers. Which intern boosting revenue for clients through visually compelling design solutions.

Volunteered at a local government school, assembling computers from donated components to facilitate basic computer education for underprivileged students. Enhancing the learning experience for economically challenged school children, contributing to their fundamental computer knowledge.

## HOBBIES

- Exploring emerging technologies
- Watching & Analyzing sci-fi films
- Exploring diverse cuisines

## INTERESTS

- Cars Modification Enthusiast
- Reforging Vintage Weapons