

Nagaraj Jyoti

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SUMMARY

Frontend-focused fullstack engineer with 1+ years building production-grade React/Next.js platforms at Daimler Trucks. Strong in performance optimization, UI architecture, and AI-integrated web apps.

EXPERIENCE

Daimler Truck Innovation Center India

Graduate Engineer Trainee (Aug 2025 – Present)
Software Engineering Intern (Mar 2025 – Jul 2025)

• KTO – Small Parts Optimization Platform

- Developed a small parts optimization platform currently deployed at Daimler's Würth plant, with architecture designed for rollout across multiple manufacturing facilities.
- Built duplicate and tolerance-based clustering algorithms to optimize small parts selection and identify reusable components.
- Implemented BoM analysis with interactive factory layout visualization using Konva.
- Reduced client-side computation time by ~70% using Web Workers and implemented virtualized data tables using TanStack Table for efficient large dataset rendering.
- Designed role-based access control supporting multiple factory environments and resolved sub-path deployment issues involving Next.js routing and Kubernetes ingress.

Tech: Next.js, TanStack Table, PostgreSQL, IndexedDB, Drizzle, Konva, Web Workers, Azure, Kubernetes

• SQD – Supplier Quality Data Platform

- Built supplier-facing data collection workflows for material and quality attributes.
- Implemented form validation and structured data ingestion.
- Integrated Python backend services for secure data submission.
- Containerized services and supported Azure deployments.

Tech: Angular, Python, SQL Server, Docker, Azure

Personal Projects

• Decisio – Decision-Making Application decisio.vercel.app

- Designed an AI-driven app for interactive storytelling and decision-making using Next.js and Supabase.
- Integrated Vercel AI SDK to generate dynamic, multi-path storylines.
- Big Five personality assessment with detailed analysis report.
- Implemented backend using serverless functions and Supabase for database and authentication.
- **Tech:** Next.js, Supabase, Vercel AI SDK, Zustand, Tailwind CSS, Framer Motion

• Gantt Chart App gantt-chart-app.vercel.app

- Built an interactive project planning tool with Gantt timeline visualization and task dependency management.
- Implemented drag-and-drop scheduling and responsive UI updates to manage project timelines efficiently.

SKILLS

- Programming Languages : JavaScript, Typescript
- Frameworks & Libraries : Next.js, React.js, Tailwind CSS, React Native (expo), Zustand
- Backend & Databases : Node.js, PostgreSQL, MySQL
- Version control : Git, GitHub
- Others : Figma, Vercel, Android Studio, Supabase
- AI / LLM : Vercel AI SDK, Prompt Engineering, LLM integrations
- Relevant Coursework : Data Structures, Operating Systems, Databases

EDUCATION

Computer Science Engineering SDMCET, Dharwad | 2025

CGPA - 8.28