

PARTH GARTAN

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Education

IKG Punjab Technical University, Jalandhar

Bachelor of Technology in Computer Science

Aug 2024 – May 2028

CGPA - 8.1

Projects

Netwrk [Live] 🗣️ | *Next.js 15, React 19, TypeScript, Express.js, Prisma, PostgreSQL, Redux Toolkit, Docker, Kubernetes*

- Architected a full-stack professional networking platform in a **5-workspace Turborepo**, featuring JWT authentication, media-rich posts, connections, notifications, and server-generated PDF resumes.
- Built a secure backend exposing **30 REST API endpoints** using Express.js, Prisma ORM, and PostgreSQL, modeling **9 relational entities** with JWT authentication, bcrypt password hashing, Zod validation, and resilient database retry mechanisms.
- Developed a responsive frontend using Next.js 15, React, Redux Toolkit, and Tailwind CSS, implementing optimistic state updates, reusable components, animations, and a layered design system.
- Containerized the application with multi-stage Docker builds and deployed it on Kubernetes using Kustomize, Traefik Ingress, Stateful PostgreSQL, Persistent Volumes, ConfigMaps, Secrets, and automated Prisma migrations.

CodeSync 🗣️ | *Next.js 16, React 19, TypeScript, Express.js, Prisma, PostgreSQL, AWS S3, Docker, JWT*

- Architected a GitHub-inspired code collaboration platform supporting repositories, branching, commits, issues, pull requests, reviews, merge workflows, and syntax-highlighted code browsing using a normalized **23-model PostgreSQL** database.
- Built a secure backend exposing **72+ REST API endpoints** with Express.js, Prisma ORM, PostgreSQL, JWT authentication, role-based repository authorization, AWS S3 object storage, and Zod validation.
- Engineered a globally installable Git-like CLI with **12+ commands** and an OAuth-style device authorization flow, enabling authenticated push, pull, branch, checkout, and remote management directly from the terminal.
- Implemented branch comparison with line-level diffs, merge commits, contribution heatmaps, repository privacy enforcement, and a fully typed TypeScript architecture across the web app, backend, and CLI.

Portfolio Website [Live] 🗣️ | *Next.js 16, React 19, TypeScript, Tailwind CSS, Framer Motion, Radix UI*

- Designed and developed a modern single-page developer portfolio using Next.js 16, React 19, and TypeScript, featuring a custom blueprint-inspired design system with responsive layouts and dark/light themes.
- Built a reusable component architecture using Radix UI primitives, Tailwind CSS, and typed content models, centralizing all portfolio data for maintainable, content-driven updates.
- Implemented smooth scrolling, scroll-triggered animations, and custom SVG path-drawing effects using Framer Motion and Lenis while maintaining accessibility and optimized performance.

Technical Skills

Languages: C++, Go, TypeScript, JavaScript, Python, C

Frameworks: React, Next.js, Express.js, Gin, Tailwind CSS, Redux Toolkit

Cloud/DevOps: Docker, Kubernetes, AWS, Linux, Nginx, CI/CD

Database: PostgreSQL, MongoDB, Prisma, GORM

AI & Tools: LangChain, LangGraph, Hugging Face, PyTorch, Git, GitHub, Turborepo

Achievements

- **Open Source Contributions:** Opened **31 pull requests** with **22 merged** across production open-source projects including Meshery and Layer5.
- **SAHITYAM 2026:** Designed, developed, and deployed the official website for SAHITYAM 2026, serving **25,000+ users** with event information, registrations, schedules, and announcements.