

TARUNYA KESHARWANI

FULL-STACK DEVELOPER (MERN + REAL-TIME SYSTEMS)

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PROFESSIONAL SUMMARY

Backend-focused full-stack developer specializing in real-time systems and scalable web applications using Node.js, React, and WebSockets. Contributed **20+ merged PRs** to CNCF-affiliated open-source projects, focusing on **API design, modular architecture, and performance optimization**. Strong interest in system design, efficient data handling, and building production-grade applications.

EDUCATION

Newton School Of Technology | 2025 – 2029

B. Tech - Computer Science & Artificial Intelligence (CS/AI)

8.83 CGPA | Specializations: Full-stack development, real-time systems, and backend architecture.

MIT Sloan School of Management | 2025 – 2025

Additional Coursework - Entrepreneurship for Social Good

Additionally, studied product validation and user-centric design for scalable solutions under the university program.

Royal Sr. Sec. School | 2023 – 2025

Higher Secondary - PCM with CS (Python and MySQL)

7.45 CGPA | 93%ile in JEE Mains | Developed a strong foundation in algorithmic thinking and database management.

Kendriya Vidyalaya | 2022 – 2023

High School - with AI (in Python)

94.6 % (CBSE Boards) | Explored fundamental intersections of mechanical systems and programming.

WORK EXPERIENCE

Google Summer of Code 2026 – Student Developer (C2SI)

Apr 2026 – Present

- Google Summer of Code 2026 contributor for WebUI's next version
- Develop an event-driven backend using GitHub Webhooks and distributed caching.
- Collaborate with maintainers on architecture, planning, and code contributions.
- Contribute to Angular, NestJS, GraphQL, PostgreSQL, and cloud workflows.

C2SI - Google Summer of Code



Open Source Mentor – GSSoC 2026 & SSoC 2026

May 2026 – Present

- Guided contributors in open-source projects on architecture, pull requests, and workflows
- Reviewed code contributions for quality and project alignment before integration
- Assisted new contributors with Git, GitHub, and open-source practices
- Encouraged community engagement and knowledge sharing among remote teams

GirlScript Summer of Code & Social Summer Of Code



Open Source Contributor – CNCF & Community Projects

September 2025 – February 2026

- Contributed to open-source projects like Meshery and OpenSource-Compass
- Made 20+ pull requests for backend, frontend, and tooling improvements
- Engaged in peer code reviews and collaborative development in distributed teams
- Improved code maintainability through refactoring and modularization

C2SI, Meshery, and OpenSource-Compass

SELECTED PROJECTS

Personal Project | May 2026

Vyay – AI Infrastructure Cost Audit Platform (React + TypeScript + Supabase)

- Developed a deterministic audit engine to analyze AI infrastructure spending and identify redundancies, inefficiencies, and cost-saving options.
- Rule-based financial analysis to deliver client-side actionable cost-optimization recommendations in under 60 seconds
- Built shareable audit reports with supabase backed persistence, unique URLs and transactional email delivery via Resend
- Integrated Gemini 2.5 Flash to produce executive-ready financial summaries with deterministic audit calculations preserved
- Automated testing with Vitest and 90+ lighthouse accessibility scores for production readiness

Project Impact | April 2026 – May 2026

DevSignal – GitHub Developer Intelligence Platform (React + Cloudflare Workers)

- Designed a GitHub analytics platform to convert repository activity into developer insights.
- Built a serverless API layer using Hono on Cloudflare Workers for Octokit-based data sync between GitHub and PostgreSQL
- Implemented smart caching and data aggregation strategies to reduce API consumption and improve dashboard responsiveness
- Secure authentication, persistence and access control with Supabase PostgreSQL and Row-Level Security policies
- Built out automated testing, linting, and type safe build workflows with Vitest, ESLint, and TypeScript strict mode.

SKILLS

- Languages:** TypeScript, JavaScript
- Frontend:** React, React Router, Zustand/Redux, TanStack Query, Tailwind CSS, Framar Motion
- Cloud & Deployment:** Vercel, Render, Firebase, MongoDB Atlas
- Soft Skills:** Problem Solving, System Design Thinking, Ownership, Collaboration, Adaptability, Attention to Detail, Time Management, Product Thinking
- Real-time & PWA:** IndexedDB, Service Workers, Web App Manifest, Offline caching
- AI:** OpenAI, Gemini, Groq APIs
- Open-Source:** C2SI & Meshery contributor
- Backend:** NodeJs, Express, RESTful APIs, WebSockets (Socket.IO), JWT/Auth (cookies, sessions, bcrypt), MongoDB/Mongoose
- Tooling:** Git/GitHub, npm, Vite, Nodemon, Env configs
- Engineering Practices** API Design, Modular Systems, Git Workflows, Performance, Debugging

EXTRACURRICULAR ACTIVITIES

DamRu - University Cultural Fest - Managed 3 large-scale events with 500+ attendees. Led outreach and operations, increasing participation through structured engagement

Smart India Hackathon (2025) - Built a system to support students dealing with mental stress.