

TARUN GUPTA

SOFTWARE ENGINEER | FRONTEND & PLATFORM SYSTEMS

Gurgaon, India | +91 81202 39387 | tarungupta1405@gmail.com | linkedin.com/in/tarun-gupta | github.com/taruniverse

PROFILE

Software engineer with 4+ years of experience building high-scale web platforms across frontend architecture, API design, and cloud delivery. Improved load time by up to 35%, reduced bundle size by 25%, and led a 4-engineer team. Strong in React, Angular, Next.js, TypeScript, Node.js, distributed workflows, and performance engineering; interested in AI-native product experiences and reliable LLM integrations.

TECHNICAL STRENGTHS

Core engineering	TypeScript, JavaScript (ES6+), Java, SQL, data structures & algorithms, system design
Web & platform	React, Next.js, Angular, RxJS, NgRx, Node.js, Express, REST APIs, micro-frontends
Scale & reliability	Performance profiling, caching, resilient API integration, distributed workflows, automated testing
Cloud & data	AWS (EC2, S3, Lambda, CloudFront), Docker, Kubernetes, CI/CD, MongoDB, PostgreSQL, MySQL
AI product tooling	LLM/GenAI APIs, prompt engineering, AI-assisted feature integration

EXPERIENCE

Tata AIG General Insurance Software Engineer	Gurgaon, India Jan 2026 - Present
Owned platform architecture. Build enterprise insurance workflows serving 100K+ users, spanning frontend systems, API contracts, validation, and reliable delivery. Improved user-perceived performance. Led Angular modernization and rendering optimizations that cut load time 35% and bundle size 25% through lazy loading and state-management improvements. Designed for independent delivery. Implemented a modular micro-frontend architecture that improved maintainability and accelerated feature delivery by 25%. Built distributed fleet workflows. Delivered a fleet platform supporting 1,000+ vehicles with real-time API integrations, dynamic pricing, retries, and failure-aware communication. Optimized high-concurrency services. Designed Node.js/Java API contracts, data models, validation, and indexed queries for workloads reported at 1K-3K concurrent requests; reduced query latency by 25%.	
Ernst & Young LLP Senior Software Engineer (SDE 2)	Gurgaon, India Jan 2023 - Jan 2026
Scaled customer-facing applications. Improved load time 30% and Core Web Vitals 25% across applications serving 100K+ users through rendering, state, and data-flow optimization. Reduced API latency. Designed Node.js REST APIs and caching strategies that lowered latency 30% and eliminated redundant requests. Raised engineering quality. Led 4 engineers, drove architecture and review standards, and shortened code-review cycles by 40%. Improved production reliability. Introduced automated testing and CI/CD controls that reduced production issues 50%; operated AWS deployments at 99.9% reported uptime. Shaped modular architecture. Defined reusable component boundaries, backend data flows, and service interfaces to improve extensibility and delivery speed.	

EXPERIENCE CONTINUED

White Force Outsourcing Pvt. Ltd.
Frontend Developer

Jabalpur, India
Jul 2021 - Jan 2023

- **Delivered full-stack web features.** Built frontend experiences and backend integrations with reliable data flow, validation, and error handling.
- **Modernized legacy code.** Reduced technical debt by 25% through refactoring, reusable components, and shared validation systems.
- **Improved integration performance.** Optimized REST data fetching and caching to reduce response time 30% and improve application responsiveness.

SELECTED PROJECTS

- **Scalable Microservices Platform - Node.js, Docker, AWS.** Designed an API gateway, authentication service, modular services, request validation, caching, asynchronous processing, retry/fault isolation, and containerized AWS deployment. Tested for 500-1K+ concurrent requests.
- **Pathfinding Visualizer - React, graph algorithms.** Built interactive Dijkstra, A*, BFS, and DFS visualizations with a dynamic grid and optimized 60 FPS rendering for real-time exploration.
- **UniType - React, TypeScript.** Created a responsive typing-analytics application with real-time performance tracking and efficient client-state management.

SELECTED ENGINEERING IMPACT

- **Performance:** Delivered 25-35% improvements across load time, bundle size, Core Web Vitals, and API/query latency.
- **Reliability:** Reduced production issues 50% through automated tests, CI/CD quality gates, resilient API patterns, and operational ownership.
- **Leadership:** Led 4 engineers and improved review turnaround 40% while driving architecture, code quality, and delivery practices.
- **Scale:** Built systems used by 100K+ users and workflows spanning 1,000+ fleet vehicles, with high-concurrency API integration.

EDUCATION

Chandigarh University
Bachelor of Computer Applications

Mohali, Punjab
Aug 2022 - Aug 2025