Md Adil *Senior Software Architect*

✉ adil.sudo@gmail.com   📞 9818128797   📍 Pune, India   🔗 md-adil.github.io

in linkedin.com/in/md-adil   ○ github.com/md-adil

📇 Profile

Senior Software Architect with **11+ years** of hands-on experience building *scalable*, *high-performance* systems. Specializes in **distributed systems**, **clean architecture**, and writing *reliable, production-ready code*. Passionate about solving complex engineering problems and modernizing large codebases.

🧠 Technical Expertise

Frontend / Web Development
TypeScript • React • Next.js • Vue.js • CSS • Tailwind • WebSocket • WebRTC

Backend
Node.js • PHP • Go • Python • Microservices • Nest.js • Laravel

DevOps / Cloud
Kubernetes • Docker • ArgoCD • GitOps • AWS • Azure • GCP

Messaging / Streaming & Databases
Kafka • RabbitMQ • RTMP/HLS • MySQL • PostgreSQL • MongoDB • Redis

Observability / Tools
Grafana Stack • Prometheus • ELK Stack • Git • Vite • Webpack • Rollup

🏆 Most Proud Of

Capsule (an in-house UI component library)
Architected a scalable UI system adopted across all BFL products; achieved **99% Lighthouse** score.

Cloud-Native Architecture
Designed high-scale microservices platforms (**1M+ users, 5K+ concurrent connections, 99.9% uptime**) with full GitOps (ArgoCD), Kubernetes, and end-to-end observability.

Developer Tooling
Built open-source frameworks like MinimaJS used across teams and 15+ NPM packages.

💼 Experience

01/2020 – Ongoing Pune	**Sr. Software Architect** *Bajaj Finserv Health* ⧉ • Led Smart Reports & OCR squads using Agentic AI to automate medical data extraction. • Built "Capsule", the company-wide design language system, achieving **99% Lighthouse** score. • Introduced **ArgoCD GitOps**, **micro-frontends**, and **Next.js**, modernizing frontend architecture. • Reduced deployment time by **80%** and ACR size by **99%**, achieving major cost optimization. • Designed reusable React components/hook library adopted across all teams. • Establishing coding guidelines and ensuring adherence to them throughout the organization.

04/2017 – 10/2020 Delhi	**Tech Lead & Full Stack** *BigRadar* ⌁ • Built full SaaS product end-to-end (architecture, backend, frontend, deployments). • Created custom MongoDB ORM, reducing repetitive code **40–50%** and improving API consistency. • Optimized Express.js wrapper, cutting response latency **20–30%**. • Shipped features rapidly with founders, improving release velocity and onboarding early customers. **Tech:** Node.js, React, TypeScript, MongoDB, Ant Design
08/2015 – 04/2017 Delhi	**Sr. Software Engineer** *Edunuts* • Modernized legacy stack by introducing **Laravel & Slim**, improving development speed and maintainability. • Optimized MySQL schema/indexing, boosting query performance and reducing load failures. • Improved engineering workflow with coding standards and modular architecture. • Supported product decisions with scalable tech choices. **Tech:** PHP, Laravel, Slim, MySQL, Node.js, MongoDB

✏ Case Studies

PHP-FPM → Laravel Octane Migration
EdTech Platform
• **Challenge:** Slow PHP-FPM responses (800ms avg), poor concurrency, and high CPU usage.
• **Solution:** Migrated platform to Laravel Octane + Swoole with coroutine execution and process-level caching.
• **Outcome:** Response time improved to **40–60ms**, **5×** concurrency, and **30–40%** infra cost reduction.

Monolith → Microservices Migration
EdTech & SaaS Platforms
• **Challenge:** Monolithic system caused scaling issues, slow deployments, and release bottlenecks.
• **Solution:** Executed strangler-fig migration to microservices with Kubernetes, full CI/CD, and observability.
• **Outcome:** Achieved fault isolation, independent service-level scaling, and faster, autonomous deployments.

Real-time Observability Platform
Clients
• **Challenge:** No visibility into distributed systems; MTTR exceeded 4 hours during critical failures.
• **Solution:** Built full observability stack with Grafana, Loki, Tempo, Prometheus, and centralized logging.
• **Outcome:** MTTR reduced to **<30 minutes**, achieved **99.99% uptime**, and enabled proactive issue detection.

📂 Open Source & Personal Projects

I enjoy building tools that solve real developer problems - this mindset naturally led me to open-source. Notable projects in include:

Yet Another Chatting Software (yacs.in) ⌁
A lockdown project.
Talk to anyone without sharing contacts

Tech stack: Typescript, React, Node.js, MongoDB, Redis, Protobuf

Minimajs ⬀
minima-js.github.io
MinimaJS is a cutting-edge Node.js framework designed to empower developers to construct contemporary web applications with exceptional efficiency.

react-read-otp
Lightweight React hook to auto-read SMS OTP in the browser with one line of code; **1k+ weekly downloads**.

🎓 Education

2010 – Present	**Self-Taught Software Engineering** *Independent Learning*
2010 – 06/2013	**Bachelor Of Commerce** *University of Delhi*