MD ADIL

Self-taught Software Engineer | Architecting scalable systems and cloud-native platforms.

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EXPERIENCE

Sr. Software Architect

Bajaj Finserv Health

Jan 2020 – Ongoing   Pune

- Leading squad of Smart Reports and OCR with Agentic AI.
- An in-house DLS called **capsule** (design.bajajfinservhealth.in)
- Introduced **Micro-frontend** and **ArgoCD**
- Handled security concerns, including addressing DDoS attacks and SQL vulnerabilities.
- Implemented deployment optimizations resulting in an **80%** reduction in deployment time and a **99%** decrease in ACR size. These enhancements have led to significant cost savings and notable improvements in efficiency.
- Establishing coding guidelines and ensuring adherence to them throughout the organization.
- Introduced Next.js & re-architected the frontend
- Designed and developed reusable React hooks and components that have gained significant adoption across the organization.
- Took ownership of designing and developing B2C and Labs, starting from the initial concept and building them entirely from scratch.

Tech Lead & Full Stack

BigRadar

April 2017 – Oct 2020   Delhi

- Built a full-fledged application from scratch independently, striving to achieve industry standards and optimal performance despite limited resources.
- Developed a customized ORM solution for MongoDB and optimized a wrapper for Express.js, enhancing the efficiency and functionality of both technologies.

Sr. Software Engineer

Edunuts

Aug 2015 – Apr 2017   Delhi

Overseeing and enhancing the company's technology stack through the strategic selection of appropriate technologies and frameworks.

Tech Stack   PHP   Laravel   Slim   MySQL   Node.js   MongoDB

MY LIFE PHILOSOPHY

With 11+ years across backend engineering, cloud infrastructure, performance optimization, and developer tooling, I specialize in designing and implementing end-to-end solutions that scale.

MOST PROUD OF

Design Language System (Capsule)
Architected and development of Capsule — a scalable design system used across Bajaj Finserv Health products, achieved 99% lighthouse score.

Architecture
Built scalable cloud-native architectures (1M+ users), led microservices modernization, created full K8s + GitOps platforms, solved end-to-end engineering problems, and built widely-used open-source tools.

STRENGTHS

- Self-Taught & Passionate
- Open Source Contributor & Creative Technologist
- Tooling & Automation
- Technical Leadership
- Security-First Thinking
- DevOps & Deployment Optimization
- Deep understanding of scalable system architecture.
- Quick Learner - I can learn anything.

TECHNOLOGY

Frontend

TypeScript   JavaScript   React   Next.js   Vue.js   Socket.io   WebRTC

Backend

Node.js   Express.js   Nest.js   Objection.js   Mongoose   PHP   Laravel   Slim

Styling & UI

CSS   SASS   Tailwind   Bootstrap

DevOps / Cloud

Other Companies:
- Apka Akhbar
- Bigly Technologies
- GuruInfoways

CASE STUDIES

PHP-FPM → Laravel Octane Migration
EdTech Platform

Tech Stack: Laravel Octane, Swoole, Redis, MySQL, PHP

Challenge: Slow responses (800ms avg), poor concurrency, and high CPU usage under PHP-FPM.

Solution: Migrated to Laravel Octane + Swoole with coroutine execution, process-level caching, and DB connection pooling.

Outcomes:
- Response times improved from 800ms → 40–60ms
- 5× higher concurrency handling
- 30–40% infra cost reduction

Monolith → Microservices Migration
EdTech & SaaS Platforms

Tech Stack: Kubernetes, Docker, Node.js, Go, Laravel, Jenkins

Challenge: Monolith causing scaling issues, slow deployments, and feature delivery delays.

Solution: Implemented strangler-fig migration to microservices with full observability on Kubernetes.

Outcomes:
- Improved fault isolation across services
- Clear ownership and autonomous deployments
- Independent database + service-level scaling

Real-time Observability Platform
Clients

Tech Stack: Grafana, ELK Stack, Loki, Tempo, Prometheus, Kubernetes

Challenge: Poor visibility in distributed systems; MTTR over 4 hours for critical issues.

Solution: Built end-to-end observability with tracing, centralized logging, metrics, and Grafana dashboards.

Outcomes:
- MTTR reduced from 4+ hours → under 30 minutes
- Achieved 99.99% availability
- Enabled proactive issue detection before user impact

PROJECTS
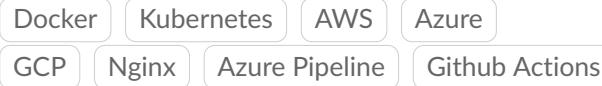
Yet Another Chatting Software
yacs.in
📅 May 13, 2019   📍 Hometown

Talk to anyone without sharing contacts

Docker Kubernetes AWS Azure
GCP Nginx Azure Pipeline Github Actions

Databases
MySQL PostgreSQL MongoDB Redis

Messaging / Streaming
Kafka RabbitMQ RTMP HLS

Observability
Grafana Prometheus ELK Stack
Loki Tempo

Least Experience
C++ Embedded systems programming
React Native Arduino Python Electron

TOOLS

Git Webpack Rollup Vite

Tech stack `Typescript` `React` `Node.js` `MongoDB` `Redis` `Protobuff`
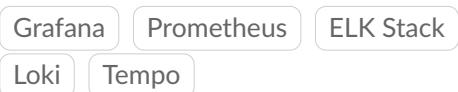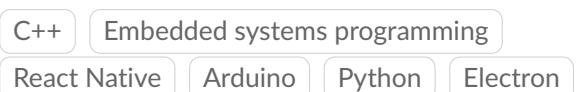
Minimajs

minima-js.github.io

📅 Sep, 2023   📍 Pune

MinimaJS is a cutting-edge Node.js framework designed to empower developers to construct contemporary web applications with exceptional efficiency and elegance.

- Functional Programming
- TypeScript Foundation
- Modern JavaScript Adoption
- Direct Request Access
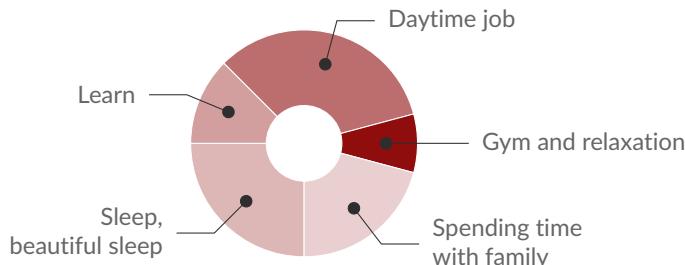
jiq (Javascript inline query)

md-adil.github.io/jiq

📅 Nov, 2020   📍 Pune

Use existing javascript knowledge to query or modify almost any type data, files and directory.

EDUCATION

SOFTWARE ENGINEERING

School of Internet

📅 2010 – Still Learning

BACHELOR OF COMMERCE

University of Delhi

📅 2010 – June 2013

OPEN SOURCE

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

- Minimajs
- react-read-otp (1̃k weekly downloads)
- ebx

Explore 150+ on Github

Over **15 Packages** on Npmjs

HOBBIES & INTERESTS

- **Programming as a Hobby** – I enjoy experimenting with new technologies, building side projects, and exploring open-source contributions beyond work.
- **Movies & Storytelling** – I appreciate well-crafted narratives, which also inspires my interest in user experience and product design.
- **Logic Puzzles Brain Teasers** – Keeps my problem-solving sharp and helps me think outside the box in debugging and systems design.