

AJAY KUMAR SINGH

Tech Lead | Full-Stack Engineer | Web3 | Cloud Architecture

+91-753-2051-001 | aksingh1493@gmail.com | [linkedin.com/in/ajay-singh-69a083108](https://www.linkedin.com/in/ajay-singh-69a083108) | thealchemyst.dev
| Bengaluru, Karnataka, India

PROFESSIONAL SUMMARY

Results-driven Tech Lead with 9+ years of experience designing and delivering scalable, high-performance web applications across fintech, blockchain, and e-commerce domains. Proven ability to solo-architect full-stack products from the ground up using modern technologies including React, Next.js, Go, and AWS. Strong expertise in Web3 integration, frontend performance optimization, CI/CD automation, microservices architecture, and cross-functional team leadership. Passionate about building products that drive measurable business impact and exceptional user experiences.

PROFESSIONAL EXPERIENCE

Tech Lead

Feb 2025 – Present

PandaMoney

Bengaluru, KA

Fintech startup building innovative financial products for the Indian market.

- Solo-architecting the entire fintech product from scratch using Go (backend), Next.js (frontend), and AWS (EC2, RDS, S3, CloudFront), delivering production-ready MVP in under 3 months
- Designed and implemented scalable microservices architecture with Go, handling concurrent financial transactions and real-time data processing with 99.9% uptime
- Built responsive, SEO-optimized frontend with Next.js 14, TypeScript, and Tailwind CSS, achieving 95+ Google Lighthouse performance scores across all metrics
- Established end-to-end CI/CD pipelines with GitHub Actions, infrastructure-as-code on AWS, and automated testing workflows, reducing release cycles by 60%
- Defined technical architecture, code review standards, database design patterns, and engineering best practices for the product team

SDE-3 (Web3 Engineer)

Jun 2022 – Jan 2025

Six Sigma Sports (ST Labs)

Bengaluru, KA

Blockchain and cryptocurrency platforms for betting and Cosmos token SGE.

- Designed and implemented frontend applications using Remix (SSR) and React for blockchain-based betting platforms built on Cosmos, increasing user engagement by 40% and reducing page load times by 50%
- Integrated multiple Web3 wallet modules including Keplr and Cosmostation, enabling seamless on-chain authentication and boosting user engagement by 35%
- Architected a gRPC-based blockchain data framework that improved data accuracy by 30% and processing efficiency by 25% across four major product lines
- Implemented GitHub Actions, Remix, and Lerna-based monorepo workflows, reducing deployment times by 20% and enhancing cross-team productivity
- Collaborated with backend and blockchain teams to define API contracts, optimize data fetching strategies, and ensure frontend-chain data consistency

Senior Software Engineer

Mar 2020 – May 2022

Paytm (One 97 Communications PVT LTD)

Bengaluru, KA

India's leading digital payment and financial services platform serving 300M+ users.

- Led development of a React-based hotel booking interface, improving user experience and boosting bookings by 20% within three months of launch
- Overhauled seller panel functionality with optimized React components and Redux state management, reducing operational issues by 35% and boosting seller satisfaction by 15%
- Played a pivotal role in the ONDC (Open Network for Digital Commerce) project, enhancing platform interoperability by 40% through optimized RESTful API integrations
- Developed 'Hi5', a group-buying platform using Node.js and React, achieving 30% increase in user engagement and 50% growth in transactions within six months
- Mentored junior developers, conducted 200+ code reviews, and contributed to engineering hiring processes across the organization

PROFESSIONAL EXPERIENCE (CONTINUED)

Senior Software Engineer

Sep 2019 – Mar 2020

Trakinvest

Bengaluru, KA

Virtual social stock trading platform for learning, sharing, and earning.

- Enhanced virtual stock trading platform by integrating real-time data analytics and interactive charts, boosting user engagement by 25%
- Designed and built high-conversion landing pages using HTML5 and CSS3, increasing user acquisition by 20%
- Developed a server-rendered Next.js product with SSR and dynamic routing, expanding the company's tech portfolio
- Automated certificate issuance system for course completions, improving operational efficiency and user personalization
- Engineered reusable modules for custom event webpages, streamlining event promotion and management workflows

Software Engineer

Feb 2019 – Aug 2019

Good Earth

Delhi

Luxury Indian design house — handcrafted designs celebrating style from an Indian perspective.

- Built responsive, pixel-perfect pages with superior frontend design and UX for a luxury e-commerce platform
- Designed efficient PostgreSQL database schemas for streamlined data storage, retrieval, and access control
- Implemented social media OAuth authentication and Google Maps integration, enhancing user convenience
- Innovated with Turn.js to deliver a captivating book-like content browsing interface for product catalogs

Software Engineer

Oct 2016 – Feb 2019

GlobalLogic

Noida, UP

A Hitachi Group digital product engineering company serving Fortune 500 clients.

- Developed a centralized Ember.js portal for resource sharing and real-time updates for an offshore enterprise client
- Created an Angular.js employee directory and content management system, improving internal communication and operational efficiency
- Innovated a C# to Ember model converter tool, automating repetitive tasks and saving 100+ developer hours across teams
- Built a full-featured CMS for efficient employee information management and enterprise resource access

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Go (Golang), HTML5, CSS3, SQL

Frontend: React.js, Next.js, Remix, Redux, Zustand, Tailwind CSS, MUI, Styled Components, Gatsby

Backend: Node.js, Express.js, Go, REST APIs, gRPC, GraphQL, Socket.io, Microservices

Cloud & DevOps: AWS (EC2, RDS, S3, CloudFront, Lambda), Docker, GitHub Actions, CI/CD Pipelines, Cloudflare

Databases: PostgreSQL, MongoDB, Redis, DynamoDB

Web3 / Blockchain: CosmJS, Keplr, Cosmostation, Cosmos SDK, Smart Contracts, Web3.js, Blockchain Architecture

Testing: Jest, React Testing Library, Cypress, Unit Testing, Integration Testing

Tools & Practices: Git, Webpack, Vite, Lerna, Rollup, Agile/Scrum, System Design, Technical Design, Code Review, Performance Optimization

PROJECTS

thealchemyst.dev

[Next.js](#) · [Cloudflare Pages](#) · [R2](#)

Personal portfolio and developer brand site deployed on Cloudflare with asset delivery via R2 CDN.

Alchemist

[AI/ML](#) · [React](#) · [Interactive Learning](#)

AI/ML learning platform with 7 tracks and 39 interactive lessons, designed to make machine learning accessible to developers.

EDUCATION

B.Tech in Computer Science

2012 – 2016

IMS Engineering College

Dr APJ Abdul Kalam Technical University

AWARDS & RECOGNITION

🏆 **Paytm Performer of the Year** — Recognized for exceptional dedication and outstanding contributions to project success across multiple product verticals

⚡ **GlobalLogic Performer for Quarter** — Awarded for exemplary performance, reliability, and technical contributions to client delivery