Shubham Kumar

Associate Lead Engineer
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About

Associate Lead Software Engineer with 8+ years building scalable, high-availability backend systems for fintech and aviation. Specialized in cloud-native architecture, distributed systems, and microservices using Node.js, TypeScript, Haskell, and PureScript. Proven expertise optimizing system performance, reducing latency by 90%, and architecting mission-critical infrastructure for millions of users.

Work Experience   8+ Years

AirFi   2025 - Present

Associate Lead Engineer   **Remote   Consultant**

• Architected mission-critical LEO (Low Earth Orbit) connectivity system, collaborating across cross-functional teams to design scalable architecture enabling real-time, high-speed in-flight internet
• Spearheaded "Next Gen" hardware bring-up, modernizing software stack while preserving core system philosophies to ensure backward compatibility and future-proof performance

AirFi   2021 - 2025

Senior Software Engineer   **Remote**

• Engineered high-availability backend services using Node.js and TypeScript, increasing captive portal launch success rates from 50% to over 75% for global airline passengers
• Optimized ADS-B event communication and satellite email accessibility, ensuring reliable data synchronization for offline-first embedded systems in low-connectivity environments
• Architected versatile remote sync service that streamlined content distribution across diverse aircraft platforms, significantly reducing manual deployment overhead
• Enhanced offline payment applications by integrating online verification capabilities when internet connectivity is available
• Improved email accessibility via satellite, playing pivotal role in project success

Juspay   2018 - 2021

Software Developer   **Bengaluru**

• Revamped CRED payment backend using PureScript and Haskell, achieving 90% reduction in payout latency by slashing processing time from 60 seconds to 6 seconds
• Enabled seamless credit card transactions by refactoring transaction flows and reducing processing time at all stages
• Implemented generic fulfillment system for various financial operations, ensuring streamlined and efficient processing
• Integrated complex multi-bank payout providers and Bill Payment services (HP Gas) for GooglePay, enabling seamless transaction flows for millions of active users

Juspay   2017 - 2018

Software Developer Intern   **Bengaluru**

• Engineered high-performance RESTful crypto service to handle sensitive financial data, ensuring 100% data integrity for encryption and digital signing operations

Education

The Oxford College of Engineering, Bengaluru VTU

2013 - 2017

Bachelor of Engineering, Computer Science

Skills

Tools

- Render
- Linux
- FlyIO
- GNU Bash
- MacOS
- VS Code
- TailwindCSS
- Neovim
- Google Cloud
- Git
- Kubernetes
- Digital Ocean
- Supabase
- ZSH
- Heroku
- Docker
- Netlify
- Amazon Web Services
- Elasticsearch

Framework And Runtime

- NestJS
- NextJs
- Bun
- Express
- NodeJS

Programming Language

- Purescript
- JavaScript
- TypeScript
- Haskell

Databases

- Redis
- CouchDB
- PostgreSQL
- MySQL
- MongoDB

Specializations

- Distributed Systems
- Latency Optimization
- High-Availability Architecture
- Embedded Systems