

# Shubham Kumar

Associate Lead Engineer  
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## About

Associate Lead Software Engineer with 7+ years of experience building scalable, multi-tenant backend systems in fintech and airline domains. Expertise in microservices, time-sensitive APIs, access control and performance optimization using NodeJS, MongoDB, PostgreSQL, Redis, and queuing systems. Proven end-to-end ownership, system reliability, and scalability at scale.

## Work Experience

8+ Years

**AirFi** Remote 2025 - Present

Associate Lead Engineer – Consultant

- Working on Embedded System Firmware
- Working on Getting LEO Connectivity Working

**AirFi** Remote 2021 - 2025

Senior Software Engineer

- Designed and optimized intricate systems for enhanced efficiency and reliability.
- Enhanced offline payment applications by integrating online verification capabilities when internet connectivity is available.
- Increased captive portal launch rates by 50%, achieving over 75% success.
- Developed a versatile remote sync service for efficient content synchronization across platforms.
- Refactored ADS-B services, ensuring seamless event communication.
- Improved email accessibility via satellite, playing a pivotal role in project success.
- Implemented text-only format restrictions, significantly improving email accessibility.

**Juspay** Onsite 2018 - 2021

Software Developer

- Served as a core team member, responsible for designing and implementing the payout system.
- Revamped CRED app's payment backend in PureScript, slashing payout time from 1 minute to 6 seconds
- Enabled seamless credit card transactions by integrating with multiple banks and payout providers; refactored the transaction flow, reducing processing time at all possible stages.
- Implemented a generic fulfillment system for various financial operations, ensuring streamlined and efficient processing
- Implemented the Bill Payment service for HP Gas on Google Pay, enabling customers to seamlessly book and pay for gas through the platform

**Juspay** Onsite 2017 - 2018

Software Developer Intern

- Implemented a RESTful crypto service with secure key storage for encryption and signing, ensuring robust data protection and secure transactions.

## Education

The Oxford College of Engineering, Bengaluru VTU

2013 - 2017



# Skills

## Tools

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

## Framework And Runtime

- NestJS
- Express
- NextJS
- NodeJS
- Bun

## Programming Language

- Purescript
- TypeScript
- JavaScript
- Haskell

## Databases

- Redis
- MySQL
- CouchDB
- MongoDB
- PostgreSQL

## Projects

### f3v3r.in

Cybersecurity blog

### hexo-twitter-auto-publish

A Hexo bot to auto tweets on Twitter for the blogs published via Hexo

### urlshortner

A URL Shorter service

### fly\_db\_backup

A tool to backup and restore Postgres database hosted on fly.io to cloudflare R2

### Discord Bot

A role management Discord Bot

## Certifications

### Cutshort Certified NodeJS (Node.js) - Basic

Cutshort

### Google Cybersecurity Specialization

Google

### Understanding CouchDB 3: Learn Basic & Advanced NoSQL Skills

Udemy

### Cutshort Certified Algorithms - Basic

Cutshort

### Tools of the Trade: Linux and SQL

Google

### Bash Scripting and Shell Programming (Linux Command Line)

Udemy

## Practical Ethical Hacking -The Complete Course

Udemy