TUSHAR KUMAR

+91 8506097679 | tusharkr1612@gmail.com | **Github** | **Linkedin**

Full-Stack Developer | MERN & TypeScript Specialist | Cloud-Native Engineer

Seeking to leverage full-stack expertise in API development, cloud-native infrastructure, and payment automation systems to drive innovation, optimize system performance, and deliver secure, user-centric solutions.

Profile Summary

- Offering **2+ years of software engineering experience** in designing and delivering scalable web applications across financial services and e-commerce domains.
- **Software Development Engineer (SDE-1) at Growcap Account Aggregation Pvt. Ltd.**, leading development of advanced payment automation systems and frontend solutions that enhance user experience.
- **Full-stack expertise** in backend API development, frontend engineering, and cloud deployment, with hands-on experience in AWS-based scalable infrastructure.
- Skilled in **event-driven architecture, microservices, and secure authentication systems** (JWT, OAuth 2.0, cryptographic practices) for fintech and enterprise applications.
- Strong grasp of **SDLC, requirement gathering, and code review**, ensuring compliance, quality, and stakeholder alignment.
- Proven **problem-solver and collaborator**, effectively working with cross-functional teams to accelerate delivery, drive innovation, and reduce time-to-market.

Core Competencies

Software Development Lifecycle (SDLC) Requirement Gathering | Application Architecture & System Design
Full-Stack Development & Integration | Cloud-Native Deployment & Infrastructure Management | Payment Automation & Fintech Solutions
Authentication Systems & Data Security | Scalability Engineering & High Availability | CI/CD Pipelines & Release Automation
Code Review & Quality Assurance Practices | Event-Driven Architecture & Message Queues | Performance Tuning & Debugging Excellence

Technical Skills

- **Programming Languages:** JavaScript (ES6+), TypeScript, Node.js
- **Frontend:** React, Next.js, Redux, SWR, TailwindCSS, HTML5, CSS3, WebSockets, Browser APIs, PWA principles
- **Backend:** Node.js, Express.js, RESTful APIs, Microservices, Prisma ORM
- **Databases & Caching:** MongoDB, PostgreSQL, MySQL, Redis
- **Architecture & Concepts:** Data Structures & Algorithms, System Design, Event-Driven Architecture, Message Queues (RabbitMQ, Kafka), JWT Authentication, Cryptography, Modularization
- **Cloud & DevOps:** Docker, AWS (EC2, S3, Lambda, SQS), DigitalOcean, CI/CD Pipelines, Git, Deployment Automation

Work Experience

Growcap Account Aggregation Pvt. Ltd. (FLOT) – *SDE-1* | July 2024 – Present

- **Engineered high-performance payment automation workflows** using Razorpay Autopay mandates and e-mandates; built a resilient Node.js worker class for bulk transaction orchestration, **increasing throughput by 30%**.
- **Automated financial data pipelines** by parsing net-banking datasets and bank statements, cutting manual effort by **40%** and **improving loan risk assessment accuracy**.
- **Led frontend development** of customer-facing and CRM portals with Next.js, SWR, TailwindCSS, and Redux, enhancing responsiveness, accessibility, and **reducing First Meaningful Paint by 35%**.
- **Architected RESTful APIs and microservices** on PostgreSQL, MySQL, and MongoDB; optimized with Redis caching layers to deliver **low-latency, high-throughput performance**.
- **Designed modular backend services**, enabling seamless scalability and feature integration with minimal downtime.
- **Deployed cloud-native infrastructure** on AWS (S3, EC2, Lambda, SQS) and DigitalOcean, ensuring fault tolerance, auto-scaling, and high availability.
- **Implemented monitoring and logging frameworks** for backend services, strengthening reliability and accelerating error resolution.
- **Partnered with product and QA teams** to identify performance bottlenecks, streamline workflows, and **boost platform efficiency**.
- **Built CI/CD pipelines & containerized deployments** with Docker and Git, enabling automated, reliable, and repeatable production releases.

Flosse – *Frontend Developer* | Feb 2023 – Mar 2024

- **Developed full-stack MERN applications** using modular MVC patterns, **accelerating release cycles by 40%**.
- **Engineered secure authentication and authorization flows** with JWT and OAuth 2.0, enabling **robust role-based access control**.
- **Built responsive, mobile-first UI components** with cross-browser compatibility, **boosting user engagement by 24%**.
- **Orchestrated CI/CD pipelines and containerized deployments** using Docker and Git, achieving a **99%+ production release success rate**.
- **Integrated backend APIs and microservices seamlessly** with frontend applications, enhancing interoperability and system cohesion.
- **Implemented modular code structures and reusable components**, improving maintainability and **reducing future development time**.
- **Optimized frontend and backend performance**, driving measurable improvements in **system speed, scalability, and efficiency**.