

Tushar Agrawal

Backend Engineer | 2+ YOE | Distributed Systems, Python , Typescript, Apache & Nginx, PostgreSQL

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SUMMARY

Full-Stack Developer with 2.5 years building scalable healthcare SaaS platforms serving 80+ users across 20+ businesses. Reduced operational costs by 90% through microservices architecture and AI automation. Collaborated with cross-functional teams and third-party vendors to deliver integrated solutions. Proficient in Python, Go, React, and Next.js with hands-on experience in HIPAA-compliant systems and cloud deployment.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Golang

Frameworks: Next.js, Django, Flask, Node.js, FastAPI

Databases: PostgreSQL, MongoDB, DynamoDB, Redis

DevOps & Infrastructure: Docker, Nginx/Apache server management, CI/CD Pipelines (Github Actions), automated database/RAM optimization, secure cloud document storage

Architecture: Event-Driven Systems, Microservices, System Design, AI-Assisted Development (Claude Code, Cursor), LLMs

PROFESSIONAL EXPERIENCE

Dr Dangs Lab, Software Developer

New Delhi (May 2023 – Present)

- Built Laboratory Information Management System for 15+ departments serving 500+ daily patients, reducing report processing time by 60% (Django, React.js)
- Engineered Go/FastAPI microservices platform handling 10,000+ monthly records with 99.9% uptime and HIPAA/DPDP compliance
- Automated medical report extraction using Python OCR, processing 1,000+ daily reports and eliminating 90% of manual errors
- Designed API gateway with load balancing handling 50,000+ daily requests at sub-100ms latency (REST, GraphQL, WebSocket)
- Reduced deployment time by 92% (4 hours → 20 minutes) using Docker/Nginx pipeline enabling daily zero-downtime releases

BeanByte Softwares, Frontend Developer

Jaipur (Feb 2023 – May 2023)

- Developed 10+ production web applications in React.js with pixel-perfect UI, increasing user engagement by 30%
- Translated design mockups into functional interfaces collaborating with cross-functional teams
- Optimized Redux and Context API implementation, reducing page load times by 25%

GoBOLT, Frontend Developer Intern

Gurugram (Jun 2022 – Dec 2022)

- Built 5+ shipment tracking features in React.js, improving accuracy by 35% for 1,000+ daily users
- Integrated 8+ frontend components with backend APIs for authentication and data visualization
- Resolved 20+ UI bugs through code reviews and agile collaboration, improving stability by 40%

PROJECTS & CONTRIBUTIONS

LiquorPro (floe.life.in, github.com/Tushar010402/Liqour_1.1): Inventory management platform serving 20+ businesses with 80+ users across Uttar Pradesh. Built Go microservices with AI-powered OCR reducing data entry by 90% (45min → 5min) and achieving sub-100ms response times (Go, Flutter, Redis, Kafka).

FloeMed (github.com/Tushar010402/Floemed): Healthcare blockchain platform with Apple Watch integration for immutable medical records. Built Flutter app enabling real-time health metrics sync and secure patient analytics (Flutter, Blockchain, HealthKit).

EDUCATION

GD Goenka University, India

B.Tech Computer Science (2019–2023)