

Ayush Kumar

Full-Stack Software Engineer

+91 7070472634 Patna, Bihar Email LinkedIn GitHub Portfolio

PROFESSIONAL SUMMARY

Full-Stack Engineer (PERN/MERN) building scalable logistics and SaaS platforms with React.js, Next.js, and Node.js. Specializes in event-driven microservices, secure authentication, and CI/CD-driven delivery – cutting processing time by 45% and boosting query performance by 25%.

PROFESSIONAL EXPERIENCE

NexoGrafix Private Limited

Junior Software Engineer

Patna, India

Apr 2026 - Present

- Built a Word add-in (TypeScript, Office.js) to automate style enforcement – cut manual formatting effort 60% for a 15-person editorial team.
- Architected a 4-microservice document conversion platform (FastAPI, React), reducing processing turnaround 45%.
- Automated TOC generation for XML/EPUB pipelines (JATS, DocBook schemas), cutting QA review time 35%.

ShipU Logistics Private Limited

Software Engineer Intern

Patna, India

Sep 2025 - Mar 2026

- Built a real-time logistics platform (PERN) with shipment tracking, delivery workflows, and RBAC – improved database query performance 25%.
- Deployed event-driven microservices (RabbitMQ, Docker) across 3 AWS environments, accelerating deployment velocity 30%.
- Migrated the codebase to a Turborepo monorepo, sharing utility packages across 6 services – cut duplicate code 35%.

Shabra Softech Solution Pvt. Ltd.

Software Engineer Intern

Patna, India

Feb 2025 - Aug 2025

- Migrated a legacy MERN monolith to a Turborepo monorepo, boosting code reuse across platforms 40%.
- Shipped Next.js web apps and React Native mobile apps for 1,000+ active users, built on shared component libraries.
- Secured access with JWT, OAuth 2.0, and RBAC – cut login-related support tickets 50%.

PROJECTS

Aetheria – Real-Time 2D Multiplayer Sandbox World

GitHub

- Built a real-time sync pipeline (Socket.io, Phaser.js) sustaining 60 FPS for 50+ concurrent players.
- Added WebRTC proximity voice chat, multiplayer canvas interactions, and drag-and-drop customization.
- Built a zero-config Neon PostgreSQL layer with automated local fallback – cut developer onboarding time 90%.

Excalidraw Clone – Real-Time Collaborative Whiteboard

GitHub

- Built a collaborative whiteboard (Next.js, WebSockets, Turborepo) with sub-100ms multi-user sync.
- Optimized rendering via React memoization and state diffing – cut re-renders 60%, latency 40%.

RideSync – Real-Time Ride Booking Application

GitHub

- Built a cross-platform ride-hailing app (React Native, Expo) with live GPS tracking and WebSocket messaging.
- Added secure auth via Clerk and optimized Neon PostgreSQL queries – sub-200ms round-trip times.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL, C++

Frontend Architecture: React.js, Next.js, React Native (Expo), HTML5, CSS3, Tailwind CSS, Redux Toolkit, GraphQL

Backend & Microservices: Node.js, Express.js, FastAPI, RESTful APIs, WebSockets, Event-Driven Architecture

Authentication & Security: JSON Web Token (JWT), Open Authorization (OAuth 2.0), Role-Based Access Control (RBAC)

Databases & ORMs: PostgreSQL, MongoDB, MySQL, Redis, Prisma ORM, Neon Serverless PostgreSQL

DevOps & Cloud Operations: Docker, Kubernetes, Amazon Web Services (AWS) (EC2, S3), CI/CD (GitHub Actions), Vercel
Message Brokers: RabbitMQ, Apache Kafka
Developer Tools: Git, GitHub, Postman, Turborepo, Monorepo Architecture, Linux, Agile/Scrum, System Design

EDUCATION

IIT Patna and IIT Ranchi <i>Master of Computer Applications (MCA)</i>	Patna and Ranchi, India <i>2026 - Present</i>
Impact College, Aryabhata Knowledge University <i>Master of Business Administration (MBA) – Marketing (CGPA: 8.61/10)</i>	Patna, India <i>2023 - 2025</i>
B.D. College, Patliputra University <i>Bachelor of Science (Honours) – Chemistry (60.4%)</i>	Patna, India <i>2020 - 2023</i>