

# Rahul Kumar

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## Profile

Software engineer with **4.5 years** of hands-on experience delivering full-stack and cloud-native solutions. Skilled in MERN, TypeScript, Next.js, NestJS, Python scripting for IIoT sensors, and AWS (EC2, S3, Lambda, API Gateway, CloudWatch). Proven record of measurable results — achieved a **60% reduction in defects**, lifted machine efficiency by **80%**, and maintained **99.9% uptime** across production systems.

## Experience

**Software Engineer**, Mushin Innovation Labs — Faridabad, IN Jan 2022 – Present

- Engineered Python-based data pipelines to process machine sensor streams, achieving a **60% reduction in defects** and raising production efficiency by **80%**.
- Designed and deployed a **production + rejection punch** system, strengthening traceability and contributing to **100% customer retention**.
- Automated CI/CD pipelines using GitHub Actions, accelerating deployment cycles by **40%** and significantly lowering release failures.
- Migrated and operated AWS workloads (EC2, S3, Lambda, API Gateway, CloudWatch), sustaining **99.9% service availability**.
- Developed MERN/TypeScript applications; **optimized** backend scalability and maintainability using NestJS and MongoDB.
- Implemented structured logging and proactive alerts, cutting mean time to resolution (MTTR) by **30+ minutes** per incident.
- Partnered with product and QA teams to deliver features adopted by **50+ daily active users** across client sites.

**Full-Stack Developer Intern**, Mushin Innovation Labs — Faridabad, IN Jan 2021 – Jul 2021

- Created React-based dashboards and alerting prototypes to validate sensor analytics feasibility and accelerate POC decisions.
- Assisted in AWS deployments, S3 integration, and automation scripting to streamline test-to-prod flows.
- Delivered frontend components and supported engineering teams in production rollouts.

## Key Achievements

- Lowered rejection rate by **60%** and **elevated** overall equipment effectiveness (OEE) by **80%** through real-time analytics and dashboards.
- Achieved **100% customer retention** for a flagship product by integrating real-time production/rejection tracking.
- Streamlined release pipelines with GitHub Actions, reducing manual effort and shortening release time by **40%**.

## Technical Skills

**Languages:** JavaScript (ES6+), TypeScript, Python, Go, SQL, Bash

**Frameworks & Libraries:** React.js, Next.js, Node.js, Express, NestJS, TailwindCSS

**Databases:** MongoDB, MySQL, Redis

**Cloud & DevOps:** AWS (EC2, S3, Lambda, API Gateway, CloudWatch, SES), Docker, GitHub Actions, Nginx, Linux

**Tools:** Git, Postman, Chrome DevTools, Vim

## Education

**Bachelor of Computer Application**, Indira Gandhi National Open University Jul 2017 – Jan 2021

**Master of Computer Application** (in progress), Indira Gandhi National Open University Jan 2021 – Present