

# Rohit Kumar Rout

Full Stack Developer (Backend & Cloud Focused)

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## Professional Summary

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Full Stack Developer with 2 years of experience at PwC, specializing in backend systems, secure APIs, and scalable web applications. Experienced in designing role-based access systems, RESTful services, and cloud-native solutions with a strong foundation in system design and databases.

## Experience

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### Associate Software Engineer — PwC India

2024 – Present

#### Enterprise Access & Workflow Management Platform (Internal Project)

*React.js, Node.js, Express.js, MongoDB, REST APIs, Cloud Deployment*

- Designed and developed a secure internal web platform to manage role-based access and approval workflows for **200+ enterprise users** across multiple teams.
- Implemented backend RESTful APIs using Node.js and Express.js, supporting authentication, authorization, and fine-grained RBAC for **10+ distinct user roles**.
- Designed MongoDB schemas for users, permissions, and workflow states, enabling reliable audit trails and reducing access-related incidents by **30%**.
- Integrated backend services with React-based frontend components, reducing manual approval turnaround time by approximately **40%**.
- Refactored legacy modules into modular services, improving code maintainability and reducing onboarding time for new developers.
- Optimized API response times and database queries, achieving up to **25% faster response times** under concurrent load.
- Collaborated with product owners and stakeholders to translate business requirements into scalable technical solutions.

## Projects

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### Athul Colors — Industrial B2B SaaS Platform

*React.js, Node.js, Express.js, MongoDB, Vercel*

- Designed and developed a full-stack B2B order management system with Role-Based Access Control (RBAC).

- Implemented OTP-based multi-factor authentication to secure sensitive B2B transactions.
- Migrated backend services to a serverless architecture, improving deployment stability and scalability.

### **TinyLink — High-Performance URL Shortener**

*Next.js 15, TypeScript, Prisma, PostgreSQL*

- Built a type-safe URL shortening platform using Next.js App Router and Server Actions to improve SEO and performance.
- Designed scalable relational data models supporting real-time analytics and fast redirections.

## **Technical Skills**

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**Languages:** JavaScript, TypeScript, Python, Java

**Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS

**Backend:** Node.js, Express.js, REST APIs, Auth (RBAC, OTP, 2FA)

**Databases:** MongoDB, PostgreSQL, Prisma

**System Design:** HLD, LLD, OOP, Design Patterns, API Design

**Cloud & DevOps:** Serverless Architecture, Vercel, CI/CD Fundamentals

**Tools:** Git, GitHub, Postman

## **Education**

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### **Vellore Institute of Technology**

Bachelor of Technology

CGPA: 8.1

## **Certifications**

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- AWS Certified Cloud Practitioner
- Microsoft Azure Fundamentals
- Microsoft Azure Security Fundamentals (SC-900)