

Ritesh Raj

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SUMMARY

AI Engineer & Full Stack Developer skilled in Python, Next.js, and NestJS, integrating Generative AI into scalable, high-performance, user-centric web solutions.

EXPERIENCE

Senior Associate

PwC

May 2022 - Present

- Built **Pathfinder**, an AI-powered regulatory analysis platform that **automated parsing and mapping of compliance documents, reducing manual review effort by 60%**; implemented **LLM-driven extraction** of metadata, references, and definitions using **Python**, designed **graph-based regulation structures** for chapter–section–obligation relationships, and developed a full-stack solution with **Next.js**, **NestJS**, **GraphQL**, and **PostgreSQL** to deliver interactive insights and compliance recommendations.
- Developed **Information Document Analyzer (IDA)** to **automate data extraction and reduce manual entry time by 70%**, enabling faster and more accurate document processing; implemented **machine learning models** using **Azure Form Recognizer** for intelligent field inference, built a responsive **React.js** frontend, integrated **GraphQL APIs** with **PostgreSQL** for structured data management, and used **RabbitMQ** for reliable asynchronous communication across services.

Technology Analyst

Infosys

August 2015 - May 2022

- Developed and optimized **customer consent management features** for Open Banking to enable secure sharing of banking data with accredited third parties, improving transparency and compliance with regulatory requirements for over **100K+ users**; implemented dynamic UI components using **React.js**, designed RESTful APIs with **Node.js** and **Swagger**, integrated **JWT-based authentication and authorization**, leveraged **Redis** for high-performance caching of large datasets, and configured **Splunk** dashboards for centralized logging and monitoring.
- Developed a **self-service infrastructure provisioning platform** under HPaaS VPC to **reduce manual effort and cost by 60%**, enabling developers to seamlessly order and configure cloud resources; implemented **dynamic tables and customizable forms** using **React.js**, integrated **Azure AD authentication** and backend services in **Node.js**, automated tasks with **Bash scripting**, and strengthened cloud expertise by earning the **Microsoft Certified: Azure Administrator Associate** credential.
- Built a **Test Environment Management System (TEMS)** to **accelerate software release cycles by 20–25% and boost team productivity by 30–40%** by proactively identifying configuration conflicts and streamlining environment tracking; developed dynamic **forms and D3-based visualizations** using **React.js**, integrated **JIRA APIs** for real-time change visibility, implemented backend logic with **Node.js (Express)** and **SQL Server**.

CERTIFICATIONS

Microsoft Certified: Azure Administrator Associate

2019

SKILLS

React.js, Next.js, Astro.js, NestJS, TypeScript, Node.js, Streamlit

Python, Data Science, Prompt Engineering, Document Extraction, Agentic AI, LLM

PostgreSQL, MongoDB

GraphQL, RabbitMQ, WebSocket

Docker, Kubernetes, Azure

Design Patterns, Data Structures and Algorithms (DSA), System Design (Architecture), Bash, Git

EDUCATION

Bachelor in Computer Engineering

University of Mumbai • Mumbai, India • 2015