

MAYANK KUMAR

New Delhi, India

+91 8433231040 Email LinkedIn GitHub Portfolio LeetCode

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, SQL, HTML/CSS
Frameworks/Libraries: React, Next.js, Express, Node.js, Redux, Recoil, ShadCN, LLM s, Material UI, Tailwind CSS, MERN Stack, Problem Solving, Data Structure and Algorithms, Agile , Microservices
Cloud & DevOps : Docker, AWS (EC2, CDK, Lambda, API Gateway, Cognito, CloudFront, CloudWatch, DynamoDB, S3)
Security & Authentication : OAuth 2.0, JWT, API Key-based authentication, IAM Roles
Database Technologies: : MongoDB, MySQL, PostgreSQL, SQL Developer, Mysql Workbench, SSMS , S3, DynamoDB
Problem Solving, Data Structure and Algorithms, Agile , Microservices

Experience

SMC Global Securities — Fintech

July 2024 – Present

Member of Technical Staff | Full Stack Developer

Delhi, India

- Developed a chat sentiment analysis platform leveraging **AWS Bedrock** (Claude 3 Haiku LLM) to extract sentiment data from conversations, improving customer insights by 40%.
- Architected a scalable, multi-tenant **URL Shortener** with admin dashboard using **AWS CDK, Lambda, API Gateway**, and Cognito, reducing URL length by 75%.
- Built an AI-powered **Signature Verification System** using **Next.js, AWS Textract, DynamoDB**, and Llama 3.2 Vision model achieving 86% verification accuracy.
- Leading the transformation of a Windows Forms-based **Pre-Order Service RegTech App** into a **Next.js** web application while migrating from Oracle SQL to **Microsoft SQL Server**.
- Developed an **Insurance Cross-Selling Platform** with **Next.js 14, TypeScript, AWS DynamoDB**, integrating APIs for real-time policy calculations.

Infosys Limited

June 2022 – July 2024

Digital Specialist Engineer | Full Stack Developer

Chandigarh, Haryana

- Engineered a scalable railcar and container tracking system for **Wabtec Corporation**, enhancing shipment visibility and improving inventory control efficiency.
- Designed and developed **RESTful APIs** using **Node.js** and **Express.js** to support real-time container tracking, processing over 10,000 daily tracking requests with 99.9% uptime.
- Implemented **Cerbos** for decentralized **RBAC** and **ABAC** authorization within a **microservices architecture**, enabling secure, policy-driven access control and reducing security incidents by 75%.
- Improved frontend performance by 40% and enhanced UX with **React.js, React Router**, Axios, and **Material UI**, Recoil, resulting in 30% faster page load times and less rendering.

Projects

Chat Sentiment Analysis App | AWS Bedrock (Claude 3 Haiku), Lambda, DynamoDB, Next.js

- Developed a full Stack serverless chat sentiment analysis platform leveraging AWS Bedrock (Claude 3 Haiku) for sentiment, entity, and Satisfaction score extraction from conversations inspired from AWS Comprehend Service.
- Developed a Next.js dashboard for real-time sentiment, entity, key phrases and language analytics visualization.

AWS Serverless URL Shortener | AWS Lambda, API Gateway, Python, TypeScript, CDK

- Developed a multi-tenant, scalable URL shortening service using AWS Lambda, API Gateway, CloudFront, and Cognito.
- Implemented API key-based access, OAuth 2.0 authentication, rate limiting, and custom domain support.

Signature Verification System | Next.js, AWS Textract, DynamoDB, SageMaker

- Built an AI-powered signature verification system using AWS Textract, Next.js, and DynamoDB.
- Integrated a Siamese Neural Network model on AWS SageMaker for accurate signature matching.

Pre-Order Service Project Revamp | Next.js, TypeScript, Microsoft SQL Server

- Modernizing a Windows Forms application into a web-based Next.js app for trade order management.
- Migrating database queries from Oracle SQL to Microsoft SQL Server for improved scalability.

Insurance Cross-Selling Platform | Next.js, TypeScript, AWS DynamoDB

- Developed a cloud-native insurance sales platform integrating real-time policy calculations via third-party APIs.
- Designed a multi-step onboarding process using Next.js, TypeScript, and Tailwind CSS.

Education And Achievements/ Extracurricular

Rajkiya Engineering College, Azamgarh

Aug. 2018 – May 2022

Bachelor of Technology in Information Technology

Uttar Pradesh

- * Solved 300+ Problem Solving Questions on various Platforms like **CodeChef** , **Leetcode** , **GFG** , **HackerRank** .
- * 3 Star Competitive coder at **CodeChef** with highest rating of 1551.