

# Sahil Kriplani

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## PROFESSIONAL SUMMARY

Full-Stack Software Engineer with hands-on experience building and shipping production-grade SaaS applications using React, Next.js, TypeScript, and Node.js. Proven ability to design scalable REST APIs, architect relational and NoSQL databases, and integrate AI/ML-powered workflows. Experienced in cloud deployment (AWS, Azure), CI/CD pipelines, and cross-functional agile delivery. Strong foundation in data structures, system design, and distributed systems.

## PROFESSIONAL EXPERIENCE

### Programmer Analyst – Full Stack Engineer

Dec 2024 – Present

TechRaysLabs Pvt. Ltd., Surat

- Built and maintained full-stack SaaS features using **React.js, Next.js, and TypeScript**, improving page load performance by ~30% through code-splitting and memoisation techniques.
- Designed and implemented **RESTful microservices** using Node.js and Express.js, handling authentication (JWT/OAuth2), core business logic, and third-party integrations across 5+ external APIs.
- Architected and optimised **PostgreSQL and MongoDB** schemas; introduced query indexing strategies that reduced average API response latency by ~40% under peak load.
- Engineered an **AI-powered OCR invoicing pipeline** that automated data extraction from uploaded documents, cutting manual invoice-processing time by over 70% for finance teams.
- Integrated payment gateways, email delivery systems (SendGrid), and authentication providers (Auth0), maintaining 99.9% uptime across distributed service boundaries.
- Deployed and managed application infrastructure on **AWS (EC2, S3, RDS) and Azure**, configured Docker containers and CI/CD pipelines (GitHub Actions) for zero-downtime deployments.
- Diagnosed and resolved critical production incidents — identified N+1 query patterns and caching gaps, reducing p95 backend latency by ~25%.
- Collaborated in a 6-person agile squad across two-week sprints, writing unit and integration tests (**Jest, Supertest**) and participating in weekly code reviews to maintain >80% test coverage.

## EDUCATION

### B.Tech in Computer Science Engineering (AI)

2021 – 2025

ITM (SLS) Baroda University

## PROJECTS

### AI-Based Invoicing & Billing Platform

*Tech stack: React · Node.js · PostgreSQL · OCR · AWS*

- Built an end-to-end SaaS invoicing platform serving multi-tenant billing workflows; reduced invoice generation time from ~8 minutes (manual) to under 30 seconds.
- Integrated OCR-based AI extraction to auto-populate invoice fields from uploaded PDFs/images, achieving ~92% field-extraction accuracy on structured documents.
- Designed a normalised PostgreSQL schema with role-based access control (RBAC), supporting concurrent multi-tenant data isolation and real-time financial reporting dashboards.

### AI-Powered Social Media Automation Tool

*Tech stack: React · Node.js · REST APIs · AI content generation*

- Developed a content automation platform with AI-driven post generation and cross-platform scheduling; reduced manual content authoring effort by ~60% in internal testing.
- Built authentication (JWT), analytics dashboards, and modular REST APIs consumed by a React frontend; designed for horizontal scalability with stateless service architecture.
- Implemented real-time engagement-tracking via WebSocket connections and optimised data-fetch pipelines using Redis caching, cutting dashboard load time by ~50%.

## AI Resume Builder (In Progress)

*Tech stack: React · Node.js · Anthropic API · PostgreSQL*

- Building a real-time resume generation platform with AI-powered content suggestions, ATS scoring, and dynamic section reordering.
- Designing a modular component architecture (React) and scalable backend with structured data handling for user profiles and resume versions.

## TECHNICAL SKILLS

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<b>Languages</b>	JavaScript (ES2022+), TypeScript, Python (proficient), Go (familiar)
<b>Frontend</b>	React.js, Next.js, Tailwind CSS, MUI, shadcn/ui, WebSockets
<b>Backend</b>	Node.js, Express.js, Laravel, REST APIs, Microservices, JWT/OAuth2
<b>Databases</b>	PostgreSQL, MySQL, MongoDB, Redis — query optimisation, indexing, RBAC schema design
<b>Cloud &amp; DevOps</b>	AWS (EC2, S3, RDS), Azure, Docker, GitHub Actions CI/CD, Nginx
<b>Testing</b>	Jest, Supertest, integration testing, unit testing, >80% coverage targets
<b>Concepts</b>	System Design (LLD/HLD), Distributed Systems, Caching, Message Queues, Agile/Scrum
<b>DSA &amp; CP</b>	Data Structures & Algorithms — arrays, trees, graphs, dynamic programming, sliding window

## ACHIEVEMENTS & ADDITIONAL

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- Sole engineer responsible for shipping the invoicing module from zero to production within 3 months of joining — used daily by finance teams.
- Active problem-solver on LeetCode; comfortable with medium-difficulty array, string, and graph problems relevant to product company interviews.
- Quick adopter of new technologies — picked up Laravel and Go basics independently while contributing to production codebases.
- Experience collaborating in cross-functional agile teams, writing technical documentation, and participating in design and code-review cycles.