

SAI SARTHAK MOHAPATRA

Senior Software Engineer — React | Node.js | GraphQL | PostgreSQL | AWS | Distributed Systems

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in saisarthakmohapatra88

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EXPERIENCE

Senior Software Engineer

Syscloud Technologies

May 2024 – Present

Hyderabad

- Architected **Backup Jobs 3.0**, a distributed job orchestration platform built using **Node.js, GraphQL, PostgreSQL and AWS**, enabling scalable execution of backup workflows and improving platform reliability by **40%**.
- Designed modular backend architecture supporting enterprise capabilities including **Ransomware Detection, Compliance Monitoring, eDiscovery, Archival and Data Insights**, enabling security and compliance workflows for **10K+ global enterprise users**.
- Extended **PostGraphile server pipelines** to enable fine-grained job orchestration, asynchronous workflow chaining, retry policies and conditional execution, improving orchestration throughput by **25%**.
- Built **GenAI-assisted operational diagnostics** using **Claude LLM APIs**, enabling automated analysis of job failures, contextual debugging insights and intelligent remediation suggestions for engineering teams.
- Directed **multi-region deployment pipelines** across **US and Tokyo infrastructure**, implementing automated rollout validation workflows and reducing deployment overhead by **35%**.

Software Engineer

Syscloud Technologies

Sep 2021 – Apr 2024

Hyderabad

- Engineered a scalable **Product Design Framework** for React-based applications enabling component-driven architecture and reducing frontend change surface by **70%**, accelerating feature rollout across product teams.
- Developed **JSON-driven UI architecture** allowing runtime interface configuration without redeployment, improving product iteration velocity by **40%**.
- Implemented secure authentication workflows using **OAuth 2.0 with PKCE and AWS Lambda authorizers**, strengthening access control and reducing authentication related issues by **30%**.
- Designed and optimized **GraphQL APIs backed by PostgreSQL**, enabling high-throughput backend services and efficient query performance across large-scale data workflows.

EDUCATION

B.Tech – Computer Science

Lovely Professional University

2018 – 2022

Punjab

KEY PROJECTS

Meeting Cost Intelligence Software

Built a full-stack AI-powered platform using **Next.js 15, React 19, Express.js, Prisma, and PostgreSQL**. Developed an autonomous meeting bot using **Playwright** and **FFmpeg** for Google Meet recording, featuring state-machine-driven orchestration and crash recovery. Implemented stealth automation via **rebrowser-playwright** to bypass detection and a resilient **IndexedDB-backed upload queue** for large file handling. Integrated **Anthropic Claude and OpenAI** for intelligence and **Supabase** for authentication and storage.

SUMMARY

Full Stack Engineer with **4+ years of experience** building scalable distributed systems and product platforms using **Node.js, React, GraphQL, PostgreSQL and AWS**. Experienced in microservices architecture, workflow orchestration, serverless infrastructure and **GenAI-assisted automation**. Passionate about building reliable developer platforms and high-performance backend systems.

CERTIFICATIONS

AWS Certified Developer – Associate

SKILLS

Programming Languages & Core Technologies

JavaScript (ES6+), TypeScript, Node.js, SQL, GraphQL, HTML5, CSS3

Frameworks & Backend Development
React, Next.js, Express.js, PostGraphile, REST APIs, Microservices Architecture

Databases & Storage Systems

PostgreSQL, DynamoDB, Redis, Query Optimization, Data Modeling

Cloud & DevOps

AWS Lambda, API Gateway, S3, RDS, CI/CD Pipelines, Serverless Architecture

Monitoring, Security & Reliability

OAuth2, PKCE Authentication, Secure API Design, Logging, Fault Tolerance

Software Engineering & System Design

Distributed Systems, System Design, Scalability Patterns, Performance Optimization

AI / Automation

Claude API, LLM Integrations, Prompt Engineering, AI Workflow Automation

LANGUAGES

English — Professional

Hindi — Native

INTERESTS

Cooking, Football, Designing scalable applications