

SIDDHI KASERA

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PROFESSIONAL SUMMARY

Full-stack & cloud engineer with expertise in scalable backend systems, microservices architecture, and AWS infrastructure. Proficient in Java, Node.js, and React with proven experience in CI/CD automation and cross-platform development—track record in delivering high-performance applications with 85% faster deployments and 40% improved efficiency.

TECHNICAL SKILLS

Languages & Frameworks: Node.js, Python, Java, React, Next.js, Spring Boot, TypeScript, Express.js

Cloud & DevOps: AWS (EC2, Lambda, Cognito, S3, RDS, API Gateway, CloudWatch, Kubernetes), Terraform, Docker, CI/CD, Git

Databases: PostgreSQL, MySQL, MongoDB, Redis

Tools & Practices: Grafana, Prometheus, REST APIs, Microservices

PROFESSIONAL EXPERIENCE

Advocara — Full Stack & Cloud Engineer | Washington, D.C. | Feb 2024 – Present

- Led cloud infrastructure for a **5-person team** — deploying **AWS architecture (EC2, ECS Fargate, and RDS)** with **Terraform**; familiar with **Kubernetes** for container orchestration through hands-on cluster work.
- Cut infrastructure costs by **~\$1,800/year** by migrating to **ARM-based EC2 (t4g.small)** and replacing bastion hosts with **AWS SSM Session Manager**.
- Developed custom Grafana dashboards and alerts using **CloudWatch, Prometheus, and Loki**, increasing incident resolution by **25%** and optimising overall system performance.
- Reduced unauthorised access attempts by **75%** by architecting a secure microservices backend with **JWT authentication (NextAuth.js + Cognito)**, role-based access filtering, and transactional data integrity.
- Improved data-access efficiency by **45% by consolidating CRUD operations** into a unified **DatabaseManager**, eliminating N+1 query patterns and delivering consistent query performance across all services
- Boosted front-end rendering speed by **60%** and cut **code duplication by 85–92%** by decoupling auth, data, and caching layers using **Zustand and React Context**.
- Built **RAG pipelines** using **LangChain, pgvector, and GPT-4o** Vision for multimodal document processing and structured data extraction from unstructured sources.

Genpact — Java Developer | Chicago, IL | Apr 2022 – Jan 2023

- Cut **service integration time by 40%** by designing **Java Spring Boot microservices** with well-defined **REST APIs**, enabling parallel team development and reducing cross-team integration conflicts.
- Accelerated UI delivery by **20–30%** and halved duplicate code by building standardised **React component libraries** used across multiple product teams.
- Improved **responsiveness by 30%** on customer-facing React applications serving thousands of concurrent users by optimising rendering and streamlining heavy front-end operations during peak load.
- Reduced **API response times by 20–30%** and front-end error rates by **15–20%** by refining request validation, payload structures, and failure-isolated service boundaries.

Crohn's & Colitis Foundation — Software Engineering Intern | New York, NY | Sep 2021 – Mar 2022

- Built high-availability **Spring Boot applications** serving **100K+ users** with a fault-tolerant microservices architecture, enabling **30–40%** faster independent deployments.
- Improved **API response times by 20–30%** by streamlining **RESTful** endpoints — reducing payload sizes and eliminating redundant round trips.
- Raised test coverage by **25–40%** and resolved **critical security vulnerabilities** by implementing **comprehensive unit and integration tests** across the codebase.

CERTIFICATION

AWS Certified Cloud Practitioner

EDUCATION

Virginia Tech — M.Eng. Computer Science | May 2025

Rutgers University — B.S. Computer Science, Minor in Business Administration | May 2021