Deepjyot Kapoor

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SUMMARY

Software Engineer with **4+ years** of experience building scalable backend platforms and distributed systems. Owns systems end-to-end—from greenfield architecture and API design to deployment, observability, and production reliability at scale. Built production AI agents, agentic workflows, and an **AI agent harness for SRE and DevOps** using **Python**, **FastAPI**, **LangGraph**, **MCP**, **Temporal**, **Kubernetes**, and **AWS**, driving measurable reliability improvements and enterprise customer impact.

EXPERIENCE

- **StackGen** 04/2025 - 06/2026
  Software Engineer San Ramon, CA
  - Rapidly prototyped and deployed a **Slack incident-response and remediation app** across customer environments, enforcing role-based access control and human-in-the-loop approvals while helping drive **$250K in revenue**.
  - Built an event-driven Datadog and PagerDuty alert-ingestion pipeline for an enterprise customer using AWS SQS, retries, and deduplication, cutting SRE alert-triage time by ∼**30%** and accelerating AI-driven remediation.
  - Developed a remote runner to securely execute AI agent tool calls in customer Kubernetes clusters, with Temporal-based durable execution, automated retries, failure recovery, and orchestration for long-running operations.
  - Delivered an AWS AI agent that generated **$500K in revenue**, securely querying customer AWS environments via Terraform-provisioned cross-account IAM roles, STS AssumeRole, and AWS Config.
  - Owned and shipped a Bring Your Own Key (BYOK) feature, enabling enterprise customers to securely store and use their own credentials through tenant-isolated encryption and centralized Vault-based secret management.
- **Cognizant** 04/2021 - 08/2023
  Software Engineer Pune, India
  - Collaborated with the Product Owner and underwriters to understand needs and deliver a DocuSign pipeline, enabling agents to initiate and track document signing in the portal and reducing manual documentation by **70%**.
  - Designed Spring Boot APIs and React/Next.js signing flows that simplified a complex multi-step process for **5,000+ insurance underwriters**; adoption exceeded initial targets by **25%**.
  - Implemented resilient backend patterns (circuit breaker in Spring Boot) to keep customer workflows running during outages, reducing service failures by **40%** and improving recovery across downstream services and third-party integrations.
  - Reduced latency for data-heavy, ∼**3,000-record workflows** by **35%** through paginated Spring Boot APIs and optimized React/Next.js views for underwriting teams handling large policy and document datasets.
- **Marwar Print** 12/2020 - 03/2021
  Software Engineer (Contract) Pune, India
  - Led contract development from the ground up as the first engineer, owning architecture, backend APIs, and mobile delivery with Flutter and Spring Boot through production launch; the app later surpassed **100,000+ Play Store downloads**.

EDUCATION

- New York University — GPA: 3.89/4 Brooklyn, NY
  Master of Science in Computer Science 08/2023 - 05/2025
  Coursework: Cloud Computing, Machine Learning, Software Engineering
- Savitribai Phule Pune University — GPA: 9.19/10 Pune, India
  Bachelor of Engineering in Computer Science 05/2017 - 05/2021

PERSONAL PROJECTS *

Arthik AI - FastAPI (Python), LangGraph, RAG, Pinecone, LangSmith, GCP (Cloud Run), Next.js
Demo (Loom)

- Independently conceived, developed, and deployed a finance AI platform from scratch—FastAPI backend, LangGraph agents, RAG over Pinecone, GCP Cloud Run—with natural-language queries over financial data using CodeAct + ReAct agents.

Mock Mate - Spring Boot, WebSocket, PostgreSQL, AWS (ECS), React (Redux), Next.js

- Independently designed and launched a peer-to-peer mock interview platform from scratch with Spring Boot REST APIs, WebSocket channels, and PostgreSQL—real-time software engineering and behavioral practice sessions.

TECHNICAL SKILLS

Languages	Python, TypeScript, Java, Golang, C++
Frameworks/Libraries	FastAPI, React, Next.js, Spring Boot, Hibernate
AI / LLM Technologies	LangGraph, A2A Protocol, RAG, Langchain, FastMCP, LangSmith, Temporal
Cloud & Devops	AWS, GCP, Docker, Kubernetes, Git, GitHub Actions(CI/CD)
Databases	PostgreSQL, Pinecone (Vector DB), AWS DynamoDB
Additional Skills	Temporal, Human-in-the-loop workflows, REST APIs, Apache Kafka, gRPC, Celery
Coding Profiles	Top rank 529/33K+, 1,874 contest rating, 1800+ problems- **leetcode.com/kp8881**