Arghyadeep Karmakar

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Summary — Full-stack engineer with extensive experience in **React**, **Next.js**, **Typescript**, and **Python API** development, proficient in leveraging AI and LLMs to develop robust, scalable applications, and also automating deployment processes for them using ArgoCD and Terraform.

Skills

Automation Terraform, GitlabCI, Azure DevOps, Jenkins,

Github Actions

Cloud Azure, GCP, AWS

Languages Python, Typescript, C, C++, Bash, Java

Frameworks Next.js, Node.js, FastAPI, Flask, React,

SpringBoot

AI Langchain, LlamaIndex, Stable Diffusion

OS Debian, Ubuntu, Windows, MacOS

DevOps Kubernetes, Docker

Experience

Publicis Sapient

Software Development Engineer L1

June 2022 - Current

January 2025 – Current

AI Studio

- Led a cross-functional team of 20+ engineers in developing an AI-powered multimedia studio and content generation platform.
- Ütilized technologies such as Next.js for frontend and Python/FastAPI, Redis, and Prisma for backend.
- Architected and deployed a production LLM pipeline processing 10K+ daily requests with GPT-4, Claude, and Gemini Pro, achieving 99.9% uptime and 800ms avg response time.
- Integrated image generation models like Stable Diffusion, Flux, Dall-e, Imagen and video generation models such as Runway and HevGen.
- Launched sophisticated web editors for seamless image and video content management, significantly enhancing user
- Optimized full-stack performance serving **65K**+ monthly active users for AI-assisted content generation.
 - **Enterprise Cloud Management Platform**
- Led a multidisciplinary team of 30 engineers to develop a scalable enterprise cloud management platform using Spring Boot (Java), React, and SQL databases.
- Directed architecture design and implementation of microservices using Spring Boot, achieving efficient handling of 1M+ concurrent API requests per day with latencies less than 200ms.
- Oversaw the frontend architecture built with React, optimizing performance through advanced state management and responsive UI, leading to a 40% increase in user engagement.
- Implemented data streaming pipelines (Kafka) for real-time analytics and notifications, enabling timely insights and improving operational decisions.
- Managed DevOps practices including CI/CD pipelines with Jenkins and container orchestration with Kubernetes reducing deployment cycles by 50%.
- Improved database performance through optimized queries, indexing, and schema refinement, resulting in a 35% reduction in database load.

Associate Software Development Engineer L2

July 2023 – Dec 2024

Client: CoreAI (Publicis Groupe)

- Established templated, scalable CI pipelines using **Azure CI** for CoreAI platform.
- Automated cloud infrastructure provisioning with Terraform, including Kubernetes clusters, blob storage, databases, key vaults, and app gateways.
- Optimized GPU workloads, cutting operational costs by approximately 2.5x, resulting in annual savings of \$500K.
- Engineered robust network routing solutions for seamless inter- and intra-application communication.
- Collaborated across 20+ teams for streamlined project onboarding and deployment.

Enterprise API

- Developed a hierarchical role management system using Java and Spring Boot, enhancing resource allocation efficiency by 30% for 1M+ users globally.
- Designed resource management solutions with PostgreSQL and optimized caching, handling thousands of requests per second efficiently.
- Integrated monitoring and tracing solutions including Kibana, Prometheus, and Zipkin to improve analytics and system observability.

Client: Container Store

- Developed an AR-based mobile application using React-Native, enhancing product visualization for customers.
- Implemented a streamlined checkout process, decreasing abandonment rate by 45% and processing \$100K+ monthly transactions.
- Integrated administrative functionalities for efficient user registration and inventory management.

Education

K. J. Somaiya College of Engineering

Aug 2018 - May 2022

Bachelor of Technology in Information Technology GPA - 9.3

Certifications

Cloud

- AWS AWS Cloud Practitioner
- GCP Cloud Digital Leader

Projects

Technical Blog Author (2023-Present)

Mar 2023 - Present

- Published 15+ technical articles on LLM architecture, Agentic Frameworks, Computer Vision, Unreal Engine, etc.
- Over 5K reads on my articles on most articles.

Open Source Contributor

Aug 2024 - Present

- Contributed 5+ bug fixes and 3 new features to core functionality and plugins (ComfyUI).
- Fixed major bug that broke the entire app (Filerobot Image Editor).