

# PREM KASHYAP CHILAKAMARTHI

## FULL STACK DEVELOPER

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### Professional summary

Full Stack Developer with over 2 years of experience at Sify Technologies, specializing in building scalable web applications using MERN, MEAN, and Python stacks, with a strong focus on Generative AI solutions. Skilled in containerizing applications and setting up CI/CD pipelines for automated deployments in cloud environments. Proficient in configuring monitoring and analytics stacks using tools like Prometheus, Grafana, and PostHog to ensure observability and deliver actionable insights.

### Experience

**Software Developer**, Sify Technologies – Tamilnadu, IN

July 2023 – present

- Architected and implemented the modernization of a large-scale e-learning suite by migrating from EC2-based deployments to a fully serverless infrastructure using AWS services, resulting in improved scalability, cost-efficiency, and support for high-concurrency workloads across multiple clients. Collaborated with cross-functional teams to design modular features and enhance platform extensibility, focusing on multi-tenant data isolation, fault-tolerant services, and audit logging for compliance.
- Engineered a custom Adobe extension for Times of India, integrated with a GCP-hosted media asset platform (12M+ assets), enabling editorial teams to seamlessly insert rich, tagged content within Adobe, streamlining workflows and reducing manual effort.

### Projects

**Skillflo** – Multi-Tenant AI-Powered E-learning Platform

- Developed a scalable, serverless e-learning platform using the MEAN stack and AWS services. Integrated GenAI features like semantic search, Q&A bots, AI-based video annotation, Assessment generation, talking-head-video, text-to-video, and storyboard generation from user-uploaded PDFs using ChromaDB. Enabled multi-template HTML content generation, AI-driven theming, and dynamic pricing per tenant/client.
- Implemented robust RBAC and designed a high-concurrency backend ensuring seamless performance and isolation across tenants.

**EventDesk** - Event Management Platform

- Developed a full-stack event management platform using Angular, Node.js, and PostgreSQL with dynamic role-based access control and secure authentication via Keycloak. Integrated real-time analytics using PostHog and designed the backend to handle tens of thousands of concurrent requests efficiently.
- Engineered a CI/CD pipeline using GitHub Actions, implemented zero-downtime deployments and rollbacks with Docker Swarm, and configured real-time monitoring using Prometheus and Grafana — fully deployed via Dokploy.

**ImaginAI** - AI Powered Auction web app

- Built an AI-driven digital art auction platform with real-time style transfer using TensorFlow, enabling users to create, list, and bid on artworks through a seamless, creator-focused UI.

### Technologies

**Languages:** JavaScript, TypeScript, Python, SQL

**Frontend:** Angular, React, Three.js, Figma, Vuejs

**Backend:** Node.js, Express.js, Flask, MongoDB, ChromaDB, PostgreSQL

**Cloud & DevOps:** AWS, Hetzner, Docker, Dokploy, GitHub Actions, Terraform, Ansible, Kubernetes, Argo CD

**Auth & APIs:** Keycloak, OpenAI API, Postman, LangChain, LlamaIndex

**Analytics & Monitoring:** PostHog, Prometheus, Grafana, Tableau

### Certifications

- AWS Certified Developer – Associate
- Workato Automation Pro

### Education

Velammal Engineering College – **B.E. in Computer Science**

GPA: 8.58/10.0

Aug 2019 – Apr 2023