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Aravind Raj C K

Blockchain Engineer/Developer

Portfolio: Araj28196.github.io
github.com/araj28196
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Software Developer with deep expertise in Blockchain technology. Engineered scalable solutions that reduced average claims by **30%** and cut intercarrier settlements time b/w vendors by **60%**. Delivered robust machine learning models and data science workflows. Led critical DevOps initiatives that streamlined processes for continuous integration and delivery resulting in **96%** SLA achievement. Played a key role in million dollar blockchain project & successfully navigating resource constraints to deliver impactful solutions.

SKILLS

Tools and Framework	Hyperledger Fabric, Docker, Kubernetes, linux, CI/CD, Git, frigate
Languages	Golang, Python, NodeJS
Quantitative Research	Semantic kernel, LLM integration(Hyperledger Fabric), Computer vision, edge computing
Cloud platform	GCP, Azure, Digital Ocean, Linode
Communication	English, Tamil, Telugu

TECHNICAL EXPERIENCE

Prodapt Solutions — Dec 2020 — **Present**, Bengaluru, karnataka

Project HLF - stage 1

- Upgraded a finance blockchain project involving **Hyperledger Fabric** from version **Legacy** to **2.2.4** for dispute management between Lumen and Verizon.
- Integrated Hyperledger Fabric with a private **Interplanetary File System (IPFS)**, reducing blockchain storage by **98%** for tax forms and cutting load during invocations, boosting efficiency.
- Integrated **Hyperledger Explorer**, allowing real-time tracking of developer activities; 15+ Leadership Members now access the dashboard, enhancing visibility and collaboration within cross-functional teams and Utilized **Hyperledger Caliper** for performance Benchmarking.

Project HLF - stage 2

- Spearheaded migration of Lumen's Hyperledger network (comprising 2 peer nodes and **100+ GB** of historical transactions) from an on-premises **Docker** setup to **Azure Kubernetes Service (AKS)**, improving scalability and reliability.
- Boosted system performance by approximately **60%** and reduced downtime by **40%** by migrating from standalone VMs to AKS, also leveraging Kubernetes autoscaling and autohealing features
- Enhanced **chaincode** availability by deploying it as an **AKS** pod and optimized deployments using **Sysbox** and Azure Container Registry (**ACR**).

Project DevOps - HLF

- Streamlined complex Linux commands into a **Jenkins declarative pipeline**, automating deployment with targeted builds and specific inputs, resulting in a **96%** SLA achievement.
- Automated manual processes to enhance deployment efficiency, enabling on-demand network recreation and specific chaincode deployments.

Project HLF-SSI

- Demonstrated POC which leveraged **SSI** principles to enable participating organizations to own and control their identities, reducing disputes and increasing trust in the intercarrier billing process.
- Enhanced **identity management processes** for cross-organizational development teams, improving security, access control, and collaboration efficiency

Personal Project

Project Sentinel

- Developing an **AI-driven** security camera system for a small distributor shop using a Single Board Computer (SBC) and Tensor Processing Unit (TPU), with the goal of enhancing real-time object detection through the Frigate application.
- Established a dedicated server using an old laptop, securing remote access with **Twingate** for continuous management.
- Actively refining detection accuracy through continuous improvements to AI models, with further enhancements planned as the project progresses.

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EDUCATION

Bachelor of Engineering, Computer Science Engineering, Kingston Engineering College — 2017
Post Graduate Program in Data Science Engineering, Great Learning Institute — 2020

BEST OF ACTIVITIES

College Chess Champion	Spring 2016
Organized Intercollege events	Spring 2015 and Fall 2016
Freelance Developer and Business owner	2017 - 2019
Participated in Insights championship	Prodapt, Spring 2021
Conducted Hyperledger workshop	Prodapt, winter 2023
Participated in Hackathon	Hyperledger India Chapter, Autumn 2024

CERTIFICATION BADGES

HOBBIES