Aravind Raj C K

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Bengaluru, karnataka
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Portfolio: Araj28196.github.io
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Blockchain Engineer/Developer

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, Polygon, Near, Solana, Docker, Kubernetes, linux, CI/CD, Git
Languages	Golang, Python, NodeJS, Solidity
Quantitative Research	N8N Flows, Ollama, Computer vision, edge computing
Cloud platform	GCP, Azure, Digital Ocean, Linode
Communication	English, Tamil, Telugu

Technical Experience

Prodapt Solutions - Software Engineer   **Dec 2020 — Nov 2024**
Bengaluru, karnataka

Project Finledger

- Upgraded finance **blockchain** project with **Hyperledger Fabric** from **Legacy** to **2.2.4** for dispute management between Lumen and Verizon, while integrating private **Interplanetary File System (IPFS)** to reduce storage by **98%** for tax forms and improve invocation efficiency.
- Implemented **Hyperledger Explorer** for real-time tracking enabling 15+ Leadership Members to access performance dashboards, and utilized **Hyperledger Caliper** for benchmarking.
- Migrated Lumen's Hyperledger network (2 peer nodes, **100+ GB** historical transactions) from on-premises **Docker** to **Azure Kubernetes Service (AKS)**, improving system performance by **60%** and reducing downtime by **40%** through Kubernetes autoscaling and autohealing.
- Enhanced **chaincode** availability by deploying as **AKS** pod and optimized deployments using **Sysbox** and Azure Container Registry (**ACR**).
- Streamlined complex Linux commands into **Jenkins declarative pipeline**, automating deployment with targeted builds and specific inputs, achieving **96%** SLA and enabling on-demand network recreation and chaincode deployments.
- Demonstrated POC leveraging **SSI** principles for organizational identity ownership, reducing disputes in intercarrier billing while enhancing **identity management processes** for cross-organizational teams to improve security and collaboration efficiency.

Synapse India - Blockchain Consultant   **Sept 2024 — present**
Remote

Project AJ-Stablecoin-near

- Engineered smart contract solution on **NEAR blockchain** for stablecoin and NEAR coin transfers. Used **Hardhat** for Smart contract Deployment
- Developed and implemented **Node.js APIs** to facilitate seamless interaction between the blockchain infrastructure and mobile front-end application, ensuring robust functionality and performance

Ligaments AI - Blockchain Consultant   **Jan 2025 — Mar 2025**
Remote

Project Filehash-Polygon

- Developed a **Solidity** smart contract on **Polygon** for storing file hashes to ensure data integrity, utilizing **IPFS** for decentralized file storage.
- Designed and deployed **Node.js APIs** for seamless interaction with the smart contract, enabling efficient verification and retrieval.

Project BTCpay Server

- Deployed and configured **BTCpay Server** as a payment gateway, integrating **Lightning Network** for fast, low-cost Bitcoin transactions.
- Developed a **Greenfield API** for seamless payment processing, enabling external systems to integrate and manage transactions efficiently.

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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