

Gokul Alex

Digital Transformation Expert

A Digital Enterprise Architect and Innovation Consultant with deep insights and diverse experiences across mainstream and emerging technologies, operational frameworks and disruptive business models. I have designed, developed and deployed software products and platforms using diverse paradigms such as AI, Analytics, Blockchain, Big Data, Cloud Computing, Internet of Things, Micro Services, Mobile Social and Web Apps. I worked with customers across Government, Retail, Healthcare, Electronics, Telecom, Banking, and Financial Services sectors. I have authored four patents and published numerous thought leadership articles.



clickgokul@gmail.com

+91-9846688444

Kollam, India

gokulbalex.wordpress.com

linkedin.com/in/gokulgaze

twitter.com/gokulgaze

github.com/gokulsan

gokulbalex.medium.com



WORK EXPERIENCE

Associate Director

KPMG India

01/2022 - Present

Kochi, Kerala, India

Building Blockchain Technology Practice with focus on Sales, Alliances, Operations, Products, and Platforms for the Government and Public Sector in KPMG India. Pioneering Blockchain Technology Architectures, and Roadmaps for various Government Usecases. Blockchain SME for one of the largest blockchain platform implementations in India.

Achievements/Tasks

- Production Deployment of one of the largest blockchain backbone infrastructure in India for land registration, revenue certificates and education certificates related use cases.
- Creation of a Blockchain Service Network Reference Architecture and Implementation Roadmap with automated node provisioning capabilities and e-District service integration
- Creation of a Decentralised Data Governance Platform powered by blockchain technology for Deep Learning Models focusing on Machine Translation Workflow
- Creation of a Blockchain Solution for Digital Evidence Management and Forensic Data Sharing Use Cases for Law Enforcement Agencies
- Creation of a Blockchain Centre of Excellence framework for e-Governance projects with a focus on privacy and interoperability
- Creation of a Web3 Sandbox reference architecture and operating model for a state government client with a focus on decentralised digital identity, decentralised storage, metaverse and blockchain protocol deployments
- Creation of a Decentralised Identity architecture for Land Record Management Systems consolidating record of rights and field books based information architecture
- Creation of a Decentralised Data Governance Platform Architecture for Social Registries and Direct Benefit Transfer Schemes across India



SKILLS

Digital Transformation



Enterprise Architecture



Design Thinking



Innovation Consulting



Quantum Algorithms



Non Fungible Tokens



Decentralised Identity



Stablecoins



Consensus Algorithms



DAO



Ethereum



Polygon



Filecoin



IPFS



Truffle



Hardhat





WORK EXPERIENCE

Chief Architect

Somish Blockchain Labs

07/2020 - 09/2021

Kozhikode, Kerala, India

Somish Blockchain Labs is a blockchain technology pioneer in India having developed numerous platforms in decentralised finance for Insurance, Prediction Markets, Protocol Governance etc. I have established a blockchain advisory and implementation services division within Somish with a strong focus on decentralised finance domain.

Achievements/Tasks

- Designed and Deployed a Blockchain based Supplychain Finance Platform with a set of invoice factoring rules
- Designed and Deployed a Blockchain Payment Workflow using zkSync zkRollup Layer 2 protocol
- Designed and Deployed a Blockchain Lending Workflow using AAVE Credit Delegation module
- Designed and Deployed a Fractional NFT system for Real Estate Project Management Workflow
- Creation of pitches, prototypes an effort estimations for various sales proposals
- Created a Ceramic IDX based Decentralised Identity System with a focus on Identity Aggregation Workflow
- Created a Verifiable Delay Function Proof of Concept for Randomisation of Predication Market Workflow
- Created a Multi Chain Yield Aggregator Proof of Concept

Associate Director

PwC India

05/2018 - 02/2020

Bengaluru, Karnataka, India

Chief Architect for Emerging Technologies in the Government and Public Sector in PwC India. Driving Blockchain Strategy Consulting initiatives for Government and Public Sector Engagements. Advisory engagements for Global Blockchain Strategy and Delivery Engagements. Digital Enterprise Architect for building Blockchain Centre of Excellence for Government Organisations.

Achievements/Tasks

- Implemented Blockchain Technology for Karnataka Government Treasury to secure large scale bill payments
- Implemented Blockchain Technology for Maharashtra Government Treasury to secure large scale bill payments
- Designed and Deployed a Multi Protocol Multi Cloud Blockchain Sandbox System for Maharashtra Government to support the startup ecosystem initiatives
- Created Blockchain Reference Architecture for Madhya Pradesh Land Registry Initiative
- Created Blockchain Reference Architecture and Implementation Roadmap for Karnataka Government Healthcare Department
- Created Blockchain Reference Architecture and Implementation Roadmap for Maharashtra Excise Supplychain
- Created Skill Development and Knowledge Management Strategy for the West Bengal Blockchain Centre of Excellence



SKILLS

Ceramic	●	●	●	●	○
Circom	●	●	●	●	○
Hyperledger Fabric	●	●	●	●	○
Hyperledger Indy	●	●	●	●	○
Hyperledger Bevel	●	●	●	○	○
Hyperledger Besu	●	●	●	●	○
Docker	●	●	●	●	○
Kubernetes	●	●	●	○	○
Solidity	●	●	●	●	○
Java	●	●	●	●	○
JavaScript	●	●	●	●	○
Python	●	●	●	●	○
GoLang	●	●	●	○	○
Rust	●	●	●	○	○
Julia	●	●	●	○	○
Cairo	●	●	●	○	○
Arbitrum	●	●	●	●	○
Avalanche	●	●	●	●	○
Aeternity	●	●	●	○	○
Algorand	●	●	●	●	○
Polkadot	●	●	●	○	○
Zero Knowledge Proofs	●	●	●	○	○
Zokrates	●	●	●	●	○
zkRollups	●	●	●	●	●
zkSNARKs	●	●	●	●	○
zkSTARKs	●	●	●	○	○
zkEVM	●	●	●	○	○



WORK EXPERIENCE

Senior Manager

UST Global

03/2015 - 04/2018

Thiruvananthapuram, Kerala, India

Performed diverse roles such as the Head of Corporate Innovation Lab, Senior Manager at COO Office focusing on revenue campaigns, Delivery Manager for Multiple Digital Innovation Projects, Program Manager for Digital Transformation Initiatives, Business Development Manager for Digital Transformation Service Line and Digital Enterprise Architect for various product and platform development initiatives.

Achievements/Tasks

- Created a Corporate Innovation Lab Network within 15% initial estimated budget and operated the lab with 20 resources, 150 interns and 60 MVPs and 10 products.
- Designed and Managed the Customer Experience Centre in the Innovation Lab for 60 Customer Visits
- Designed and Managed the Innovation Garage in the Lab and incubated assets related to Social Networks, Mobile & Web Technologies, Cloud Computing, Cybersecurity and Internet of Things.
- Designed and Managed the Co-Creation Centre in the Lab and incubated assets related Healthcare, Retail, Banking and Financial Services, Supplychain and Logistics, Energy and Utilities and Government and Public Sector.
- Incubated Blockchain Protocol Research Centre in the Innovation Lab focusing on Ethereum, Cosmos, IOTA, Hashgraph and Hyperledger Protocols
- Incubated Deep Learning Research Centre focusing on building assets related to Chatbots, Natural Language Processing, Computer Vision, Image Processing, Video Analytics, Anomaly Detection, Knowledge Graphs, Search Engines, and Semantic Summarisation.
- Incubated Quantum Computing & Post Quantum Cryptography Research Centre and build Quantum Circuits, and Quantum Algorithms on IBM Qiskit.
- Delivery Management for the Social Commerce Product Development Project in the Telecom Sector
- Delivery Management for the Digital Finance Product Development Project in the Shipping and Logistics sector
- Enterprise Architect for a Digital Experience Portal Development engagement in Sourcing Sector

Senior Consultant

EY India

02/2014 - 03/2015

Thiruvananthapuram, Kerala, India

Achievements/Tasks

- Created the Business Classification Scheme, Information Architecture and Digital Maturity Model for a Think Tank
- Incubated the Enterprise Content Management and Business Process Management Consulting Service Line
- Designed the Governance & Operating model for the Technology Innovation Hub
- Created the Information Governance framework for APAC based leading Airline industry client.
- Created the Industry specific ECM solution architecture for US based Insurance client.
- Developed a digital maturity model for client engagements in Healthcare - Life sciences
- Organised the first ever Design Thinking focused Human Centred Innovation Hackathon across Kerala



VOLUNTEER EXPERIENCE

Ambassador

Algorand Foundation

08/2018 - 02/2020

Bengaluru, Karnataka, India

The ecosystem development organisation for Algorand Blockchain

Tasks/Achievements

- Creating Thought Leadership on Algorand Blockchain
- Supporting Developer Ecosystem in India

Ambassador

Hedera Hashgraph

09/2017 - 11/2019

Bengaluru, Karnataka, India

Tasks/Achievements

- Organised Developer Bootcamps on Hedera Hashgraph
- Participated in Global Ambassador Network



ORGANIZATIONS

Tezos India Foundation

Algorand Foundation

Hashgraph India

Hyperledger India

Hyperledger SIG on Government

Hyperledger SIG on Healthcare

Hyperledger SIG on Capital Markets



HONOR AWARDS

Top 100 Blockchain Thought Leader and Influencer
(01/2021 - 12/2021)

LATTICE 80 Network

ETH India Dapp Jedi Hackathon Winner
(11/2020 - 12/2020)

ETH India

- Governance of Tokenised Real World Assets using RANDAO

ETH Planet Hackathon Winner (09/2020 - 10/2020)

ETH Planet

- Quadratic Voting Implementation for DAO Governance

HackAtom Hackathon Winner (12/2020 - 01/2021)

Cosmos India

- CosmWasm Implementation of NFTs on a Cosmos Polkadot Bridge

ETH Punk Hackathon Winner (01/2021 - 02/2021)

ETH India

- Streaming Network for the Tokenised Real World Assets

Key Note Speaker on Remote Voting Conference
(07/2020 - 08/2020)

Election Commission of India

- Panel Discussion on Authentication, Auditability and Verifiability of a Remote Voting Framework Powered by Blockchain Technology

Blockchain Security Speaker in DEFCON 28
(08/2020 - 08/2020)

DEFCON BlockVillage

- Ethereum Security and Verifiable Delay Functions



WORK EXPERIENCE

IT Architect

IBM India

11/2011 - 02/2014

Bengaluru, Karnataka, India

Achievements/Tasks

- Enterprise Content Management Competency Leader for Interwoven ECM Delivery Engagements
- Mobile Enterprise Thought Leader for IBM Redbooks Author Program
- ECM Solution Architect for a Legacy Portal Platform Modernisation Engagement in Automotive Sector
- ECM Application Architect for a Portal App Platform Delivery Engagement in Electronics Sector
- IT Architect for the IBM Intelligent Operating Centre Integration Proof of Concept
- IT Architect for the IBM Message Sight based Network Data Integration Proof of Concept
- IT Architect and Innovation Lead for IBM Watson based Cognitive Computing Proof of Concept
- IT Architect for Secure Mobile Messaging Platform for Citizen Centric Public Participation Workflow System

Senior Associate

Sapient Corporation

10/2010 - 10/2011

Bengaluru, Karnataka, India

Achievements/Tasks

- Deployed the Interwoven TeamSite ECM Platform Infrastructure on Production Environment for a Aviation Sector client
- Designed the Reverse Deployment Utilities for the Interwoven TeamSite ECM Platform
- Developed the Content Parsers for Interwoven TeamSite based Content Repository
- Developed the Content Deployment Utilities for Interwoven TeamSite ECM Platform
- Development of Tuple Processors for the Interwoven TeamSite ECM Platform

Associate Consultant

Polaris Software Labs

10/2005 - 08/2009

Chennai, Tamil Nadu, India

Achievements/Tasks

- Team Lead for Interwoven ECM based Platform Deployment across EMEA, LATAM, APAC regions
- Subject Matter Expert on Interwoven ECM for a large scale content migration engagement to Documentum Platform
- Subject Matter Expert on Interwoven ECM for multiple ECM Platform consulting engagements
- Development of Data Capture Templates and Workflow Templates on Interwoven ECM Platform
- Development of Portal Applications on Apache Struts and Tile Framework
- Server Administration and Performance Engineering of IBM WebSphere Application Server Infrastructure



HONOR AWARDS

Blockchain Security Speaker in DEFCON 29
(09/2021 - 09/2021)

DEFCON BlockVillage

- A Survey of Attack Vectors against DeFi Protocols

Key Note Speaker in NULLCON 2021
(03/2021 - 03/2021)

NULLCON India

Top 10 Blockchain Thought Leader and Influencer
(01/2020 - 01/2023)

Thinkers360

Top 20 Cybersecurity Thought Leader and Influencer
(01/2020 - 12/2020)

Thinkers360

Top 20 GovTech Thought Leader and Influencer
(01/2020 - 01/2023)

Thinkers360



LANGUAGES

English



Malayalam



Hindi



Tamil



Kannada



Telugu



INTERESTS



Poetry



Physics



Philosophy



Psychology



CERTIFICATES

IBM Certified IT Architect (10/2012 - 01/2014)

IBM Certificate Program for Architects in GBS

IBM Certified Industry Consultant (05/2012 - 01/2014)

IBM Certified Electronics Industry Consultant

IBM Redbooks Thought Leader (05/2013 - 01/2014)

IBM Mobile Enterprise Thought Leader



EDUCATION

B.Tech, Electronics and Communication

University of Kerala

06/2001 - 06/2005

79%

Courses

- Internship on Random Signal Processing at VSSC Trivandrum
- Research Project on Soliton Communication Systems
- Presentation on Spintronics at Institution of Engineers
- Research Project on Semiconductor Laser Systems

Pre-Degree

University of Kerala

05/1999 - 05/2001

89%

Courses

- Physics
- Chemsitry
- Mathematics
- English Literature