

# Shritesh Jamulkar

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## Work Experience

### THG - The Hut Group

Software Engineer

Manchester, UK

Nov'23 - Present

- **Stockmanager and various other microservices - In Stock and Availability Team**

- Developed scalable front-end and back-end solutions using Spring and Angular, achieving 90%+ unit test coverage.
- Migrated legacy Tomcat-based services to Kubernetes and Docker, reducing deployment time by 66%.
- Optimized database performance by migrating legacy queries to batched queries, cutting query wait times by 40% and reducing application crashes.
- Led three key client integrations for warehouse management, resolving stock discrepancies and ensuring seamless collaboration across teams.
- Implemented Zabbix-based monitoring and alerting systems, boosting infrastructure uptime by 20%.

### Samsung Research & Development Institute, Bangalore

Software Engineer

Bangalore, India

Jul'21 - Oct'23

- **LTE System Manager (LSM) Project - In Management Software & Analytics Team**

- Worked on a full-stack Java Spring telecom tool (LSM) for network management, delivered on time and under budget using agile methodologies.
- Optimized microservice communication with RMI (Remote Method Invocation), cutting latency by 25% and enhancing real-time network monitoring responsiveness.
- Designed custom error logging and exception handling, reducing debugging time for field engineers.
- Automated end-to-end testing for the Element Management System (EMS) using Python and Selenium, slashing manual testing efforts by 50% and accelerating release cycles.
- Provided TAC3 support for 4G networks (e.g., JIO, SKT), ensuring efficient operations and issue resolution.

- **Samsung Software Competency Test (SWC) - Advanced Level**

### The Linux Foundation

Hyperledger Mentorship Program 2021 - Mentee

Jun'21 - Dec'21

- **Hyperledger - Implement cross chain contract invocation using ServiceMesh way**

- Implemented cross-chain contract interoperability between Hyperledger Fabric and Besu using a ServiceMesh approach.
- Developed a Solidity smart contract with a 2-phase locking mechanism for secure cross-chain transactions.

### Zenithec Techware

iOS Developer

Raipur, India

04/2019 - 02/2021

- **PetBro Business iOS Application**

- Developed the PetBro Business iOS app using MVVM and RxSwift, integrating RxMoya for network abstraction.
- Published an open-source library to resolve keyboard dismissal issues in UIViewController.

## Publications & Research Works

### Cross-Chain Contract Invocation with Hyperledger Firefly

01/2023 - In Publication

In Collaboration with Nikos Kapsoulis (Ph.D. candidate at National Technical University of Athens)

- Proposed a cross-chain invocation methodology with Hyperledger Firefly supernode.

## Blockchain-Based Digital Evidence Management System

07/2020 - 12/2020

Guide: Dr. Preeti Chandrakar (Assistant Professor) at NIT Raipur)

- Proposed a digital evidence management system for legal cases to store digital evidence in Hyperledger Sawtooth using IPFS in PBFT consensus mechanism.

## Echo Based Real-time Attendance System

08/2020 - 12/2020

Guide: Dr. Jairam Naik (Assistant Professor) at NIT Raipur)

- Developed an Echo-based attendance system with a React GUI using the Quiet Modem Project to capture attendance from all available listeners in one shot.

## Education & Certifications

### Masters of Science, Trinity College Dublin

Dublin, Ireland

Computer Science - Future Networked Systems

09/2022 - 08/2023

### Bachelor of Technology, NIT Raipur

Raipur, India

Computer Science and Engineering

08/2017 - 05/2021

- **Associate Android Developer** - Google Developers
- **Classical Cryptosystems and Core Concepts** - Coursera

## Key Projects

### Farcaster Frames Polkadot Pallet

A NFT minting application for Farcaster Frames on Polkadot - **Funded by Web3 Foundation**

### Protocol Buffers Parity SCALE Codec Generator

A Rust library to generate Parity SCALE Codec-compliant Rust code from .proto files for no\_std environment, simplifying build-time code generation for Cargo projects.

### Lua Parser + Interpreter

A Lua Parser + Interpreter using LPegLabel with an error recovery mechanism.

### HideKeyboardWhenTappedAround (iOS)

A library for hiding the keyboard when the user taps anywhere on the screen on an iPhone.

## Technical Skills

**Programming Languages:** Java, Kotlin, Javascript/Typescript, Python, C/C++, Swift, SQL, Bash, Golang, Solidity, Rust.

**Web Technologies:** Nodejs (MERN & MEAN Stack), Django/Flask, REST/GraphQL/gRPC/Web Sockets/MQTT, React, Angular

**Databases and Message Queues:** MySQL, Postgres, MongoDB, Redis, Prometheus, GraphDB, Apache Kafka, ActiveMQ

**DevOps:** Git, Jenkins, Kubernetes, Docker, Grafana, Prometheus

**Blockchain Technologies, and Others:** Ethereum Solidity, Hyperledger Fabric/Sawtooth/Firefly/Burrow, Polkadot.

## Hackathons, Achievements, Talks and Bootcamps

- **Winner:** EasyA x Polkadot London Hackathon 2024 - Built a pallet for Farcaster Frames integration.
- **Runner Up:** ETH London 2024 - Created "DeRefer," a decentralized referral system using royalties.
- **Finalist:** Smart India Hackathon 2019 & 2020 (Blockchain-based DApps for AAI & Security)
- **Speaker at Conferences, Meetups:** Kafka Summit 2024, PyCon Limerick 2023, DubJUG, and local developer communities.