

# ROHAN DOSHI

+91 93257 12554 | rohan.doshi02@gmail.com | rohandoshi21.github.io | github.com/RohanDoshi21 | linkedin.com/in/rohan-doshi21

## EDUCATION

**Pune Institute of Computer Technology, B.E in Computer Engineering**

July 2020 - May 2024

- CGPA 9.48/10.0

**Dr. Kalmadi Shamarao Junior College, class XII**

July 2018 - June 2020

- Percent 93.54%

## SKILLS

**Languages & Technologies** Javascript, Golang, Java, Python, C++, Node.js, Flutter, RabbitMQ, Kafka, Docker

**Databases & Cloud** Postgres, MongoDB, Firebase, ScyllaDB, SQL, AWS

**Course Work** Distributed Systems, Computer Networks, Databases, Information Retrieval Systems

## EXPERIENCE

**Intangles, Software Application Engineer** | (Pune, India)

July 2024 - Present

- Redesigned architecture of **S3-triggered Lambdas** to **SQS consumers on spot instances**, saving **\$10,000 annually**.
- Resolved a core **memory leak** through **heap dump analysis**, reducing memory footprint by **25%** across microservices.
- Engineered a bulk file upload solution, reducing **device sync time by 80%** for hourly data collection & Architected **MQTTs** for on-field devices, ensuring **private key generation** on-device, achieving **AIS-189 certification**.

**Golain, Software Engineering Intern**

March 2024 - July 2024

- Integrated **WebRTC** using the **Pion stack in Go**, ensuring secure communications via **DTLS** through mutual TLS (mTLS) certificate exchange within **sub 100ms latency**.
- Set up **Change Data Capture (CDC)** using PostgreSQL Write-Ahead Logging (**PG-WAL**), avoiding the use of triggers and **pg\_notify**, resulting in **20% faster** execution.
- Integrated **RabbitMQ** for asynchronous programming and employed **Server-Sent Events (SSE)**, for real-time visibility of events to users, reducing network-calls by 50%.

**Tracelink, Software Engineering Intern**

June 2023 - July 2023

- Refined architecture to optimize **SageMaker** overhead by invoking **Lambdas** for parallel processing of smaller chunks, reducing costs by **25%**.
- Architected performance dashboard backend to use an in-memory cache, **Redis**, instead of fetching reports from **S3**, resulted in saving **3-5 minutes** for each report generation call.

**Azodha Systems Pvt Ltd, Flutter Developer Intern**

November 2022 - May 2023

- Improved the **BLOC pattern** for state management and adopted **Clean Architecture** principles in the development of the **Practice Journal** project, using dependency injection; reducing app boot time by 4secs.
- Integrated **VendorModel** support into the **BLE-Mesh** Flutter plugin using **Event Channels** and **Method Channels**, enabling **Protocol Buffer** for efficient data serialization over **Wi-Fi** and **BLE-Mesh** networks, reducing bandwidth usage by **50%** compared to JSON.

## PROJECTS

**Distributed MQTT Broker** | Go | Redis | Raft | [Research Paper]

August 2023 – May 2024

- Utilized a **gossip protocol**-based for **Node Discovery** and **Health Checks**, with client state synchronization using **ETCD (Raft)**, ensuring 99% consistency in client-topic mapping across brokers, significantly improving system reliability.
- Developed a custom **load-balancer** for round-robin **TCP packet forwarding**, and utilized **Redis streams** for decoupling broker connections and ensuring **fan-out delivery** with shared memory storage, reducing network chatter by 80%.

**Pulzion '22 & '23 WebApp** | Flutter | Node.js | PostgreSQL | [Deployment] [Source]

February 2022 – April 2023

- Achieved **3000+ registrations** and **400+ PlayStore downloads** for the Pulzion '22 & '23 event management app, with seamless integrations of **FCM** for real-time engagement and **RazorPay** for secure transactions.
- Optimized web-app performance using **Dependency Injection**, **MVC pattern**, and efficient database interaction with **raw SQL queries** in **PostgreSQL**, which dropped memory utilization by 12%.

**Cloud Accounting** | Flutter | Node.js | Firebase | PostgreSQL | [Source]

September 2021 – Jan 2022

- Integrated **Firebase** for robust user authentication using **OAuth2 Google Sign-In**, reducing authentication time by 30% and implemented secure file storage, chat, and appointment booking features through cloud storage services.
- Developed resilient APIs using the **Repository Pattern** in **Node.js**, leveraging **TypeScript**, **Prisma (PostgreSQL)**, and **web sockets** for real-time chat and optimized data management, reducing p95 latency by 500ms.

## ACHIEVEMENTS

- Winner at Nice Systems Ltd Project Competition, winning among 40+ Nice interns.
- 2nd Runner Up at PICT InC, Concepts ( CN Domain ) among 200+ teams, Runner up PICT v/s VIIT Development Battle (Hackathon), Runner Up "Hackspiration" Hackathon conducted by MLSC, VIT.
- Played a key role in developing and launching 4 apps on the Play Store with 1000+ users cumulatively [Link].