

Muhammad Mujtaba Roohani

SOFTWARE ENGINEER · BACKEND / SMART CONTRACTS / IOS

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“The worth of every being is in their *yohsin*” - Ali

Work Experience

BlockApex

Karachi, pk

SENIOR BACKEND & SMART CONTRACTS ENGINEER

Aug. 2024 - Present · 1.5 yr+

- Led a lean team to build a cross-chain heterogeneous **yield aggregator** producing 8%+ stablecoin APY with **100% test covered** backend services, smart contracts and graph indexers.
- Contributed 5+ libraries to [valence-protocol](#) and long awaited [upgrade](#) to a package with **1000+ weekly downloads**.
- Ranked 6th for reporting a high severity vulnerability in a [public security contest](#) held on Cantina.
- Co-audited a protocol on **TON Blockchain** reporting several critical vulnerabilities and proposing actionable remedies.
- Authored and reviewed technical architecture sections for multiple AI × Blockchain project proposals
- Published **3 technical blog posts** on smart contract testing and yield aggregator design, sharing original insights with the Web3 community.

SadaPay Technologies Ltd.

Dubai, UAE

SOFTWARE ENGINEER II

Oct. 2023 - Jul. 2024 · 9 mo

- Collaborated in **mob-programming** sessions with highly talented colleagues, fostering collaboration and ensuring shared code ownership.
- Focused on Backend services written with **Kotlin** and **Springboot**, engaging in chapter meetings, proposing and discussing ideas to improve resilience of our backend services.
- Investigated and resolved 150% increased API time-consumption post-service-upgrade by identifying and fixing a critical bug, testing in staging and production, and sharing the solution with the broader team. Received **public praise** for the same.
- Identified and corrected CI/CD GitHub workflow issues to **prevent unintended code releases**.
- Enhanced monitoring dashboards on Kibana and Dynatrace for proactive service performance monitoring.
- Investigated and resolved issues to improve service availability from 99.8% to 99.98%.
- Practiced **Test-Driven Development (TDD)** to create and maintain 98% covered services and apps producing highly reliable software for our customers.
- Contributed to building and delivering a fully functional Ledger from scratch, including inter-service APIs, an iOS widget for displaying balance, and a control module in the admin portal. Actively involved in backend development, iOS widget support, and web module extraction.
- Owned the generation of ‘Account Statement’ feature starting from the SPIKE ticket to monitoring the post-production performance.
- Participated responsibly in on-call rotations, which included reacting to incidents, reducing alert noise, and ensuring a healthy system state.

Tilism Technologies

Karachi, Pakistan

BACKEND SOFTWARE ENGINEER (NODEJS)

Jan. 2023 - Oct. 2023 · 8 mo

- Led a team of 6 engineers, enhancing an embedded chat framework for businesses.
- Managed and extended on-premise Kubernetes cluster and improved CI/CD workflows.
- Made public contribution with a module for [ejabberd](#) in **Erlang**, and helped the company adopt it saving **9000 USD** annually
- Helped the company swiftly shift focus to their B2B model by reusing their existing infrastructure advancement from their flagship product.

IOS ENGINEER

Nov. 2020 - Jan. 2023 · 2 yr 3 mo

- Led a team of 3 iOS engineers, fostering a sense of shared responsibility among them, and maintained a culture of reviewing each other's work and engage in productive discussions to write better code each day.
- Maintained and extended a hyper-localised, integrated social media and messaging application used by over a million users.
- Identified and implemented various **XMPP** extensions introducing exciting features for our users.
- Devised a framework for **Clean Architecture** and migrated ~40% of the code base to it achieving partial testability.
- Got recognition for my cross-domain problem-solving skills with an early promotion.

CONSULTANT (ONGOING)

Oct. 2023 - Present · 1 yr

Technollage

Karachi, Pakistan

FOUNDING MEMBER & IOS + BACKEND ENGINEER

Nov. 2015 - Aug. 2019 · 3 yr 8 mo

Education

Habib University

Karachi, Pakistan

B.SC IN COMPUTER SCIENCE & MINOR IN MATHEMATICS

Aug. 2016 - Jul. 2020 · 4 yr

- Secured 3.5 CGPA
- Studied multidisciplinary electives including Quantum Computing, Machine Learning, Data Science, Environmental Engineering, Geometrical Modelling, Computer Graphics, and Climate Change.