

Anza Qadir

+92-343-4216963 | anzaqadir123@gmail.com | [linkedin.com/in/anza-qadir](https://www.linkedin.com/in/anza-qadir)

EDUCATION

Lahore University of Management Sciences
Bachelors of Science (Honors) in Computer Science

Lahore, Pakistan
Aug. 2015 – May 2019

EXPERIENCE

Senior Software Engineer
Rayn

Dec 2022 – Present

- Led a groundbreaking Polio eradication project using geospatial technology, successfully managing tracking and coverage in 4 provinces of Pakistan, and advancing global health initiatives significantly.
- Engineered real-time tracking of user distances traveled with mobile devices, providing vital, up-to-the-minute information for decision-makers and enhanced coverage accuracy by **20** percent.
- Architected and seamlessly implemented a robust **producer-consumer pipeline utilizing RabbitMQ**, skillfully managing data streams from a network of over **50,000 devices**. This initiative led to a remarkable 30 percent reduction in resource consumption.
- Solved complex geospatial challenges, resulting in a **15 percent** increase in data accuracy and providing critical insights for the Polio eradication initiative.
- Strategically engineered the seamless **integration of Redis as a dynamic caching solution**, orchestrating a substantial 10 percent reduction in dashboard latency. This transformative enhancement vastly elevated the user experience, making real-time data interactions smooth and responsive.

Software Engineer

Nov 2020 – Nov 2022

ExperLabs Client: Seated

- Developed 9 new mainstream features in a time span of one just year. Doubling our app users by bringing **100k** new users.
- Streamlined development life cycle by introducing Continuous Integration, Automated build systems, unit testing, and Test-driven development.
- In the last six months one of the worst-performing components (Reservation Modification) of the app to one of the top performers. Improving the Revenue of Restaurants by **18** percent.
- Increased customer conversion rates by **19** percent by configuring **A/B test and Amplitude** tracking to validate design changes and new features.
- Scoped and collaborated with a group of 10 engineers on a feature (**Reward Splitting**) to enable users to split the rewards among the guests. We received very positive customer feedback and saw a massive jump in new customers

Software Engineer

Dec 2019 – Nov 2020

Quantum Intelligence Client: Point72

- Implemented a high throughput, ultra-low-latency, garbage-free and cache friendly fix messaging engine. The strategy increased the cache hit ratio by 50 percent and memory consumption by 12 percent.
- Proposed on the general improvement and optimization of the already built fix message engine by multi-threading and single pass parsing. It reduced the time required for parsing stock exchange messages by a factor of 2.
- Specified, prototyped, developed, and tested performant object-oriented quantitative frameworks requiring maximum throughput and minimum latency, containing support to: STL, thread synchronization multithreading, and multi-processing (Intel Thread Building Block).

Cofounder

Nov 2018 – Nov 2019

TaaJir

- B2B marketplace and trade platform, created specifically for small & medium businesses. It was incubated in NIC Lahore.

PROJECTS

Symbolic Execution | *CMAKE, KLEE, Selenium, LLVM, Docker*

- As symbolic execution engines issue a huge number of queries to the constraint solver that are often large and complex when analyzing real-world programs, we tried to deal with this problem by introducing a search heuristic for prioritizing path exploration and by using a cache-based approach in KLEE.

GoogleFileSystem | *Python, C++*

- a replica of Google File System (GFS). GFS provides fault tolerance, reliability, scalability, availability, and performance to large networks and connected nodes.

TECHNICAL SKILLS

Languages: C/C++, JavaScript, TypeScript, Kotlin, Golang, Java

Frameworks: React, Node.js, JUnit, Express

Other Skills: Git, Redis, Docker, AWS, Google Cloud Platform, VS Code, Android Studio