

# Muhammad Ghayas Baig

Software Engineer

Karachi, Pakistan

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A Software Engineer with demonstrated skills on applications and systems with Millions of users like Airlift Express. I worked on some highly scalable Microservice based Backend Systems and an iOS Application serving Thousands of daily users and 300K+ Downloads based on MVVM and Clean Architecture. Experienced with converting a Monolithic Application to multiple Microservices and working on backend that served thousands of requests per second

## Skills

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Programming Languages: Javascript/Typescript, Swift, PHP, Solidity, C/C++

Concepts: OOP/OOD Concepts and Design Patterns, Clean Architecture, MVVM, MVC, Blockchain

Tools & Technologies: iOS App Development, NodeJS, NestJS, ExpressJS, KoaJS, Jest, Redis, Elasticsearch, AWS ), Kafka, Laravel, React/Redux, React Native, VueJS, Smart Contracts, IPFS, Infura, Truffle, PSQl/MySQL, MongoDB, Firestore, Dynamo, WebRTC, WebSockets, Google FCM

## Work Experience

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Airlift Technologies  
Software Engineer II

Karachi, Pakistan  
January 2022 - July 2022

- *Worked on some critical features related to end to end flows of our CX Domain in a Microservice Architecture*
- *Worked on optimizing costs for multiple resources including event brokers, loggers and database queries*
- *Worked on multiple features on the iOS Airlift Application (Swift) including architectural improvements like adding a DI layer to our Clean Architecture on the iOS app*
- *Worked on features that included NestJS, Redis, Elasticsearch, SQS, Aurora PSQl, DynamoDB, S3, Lambda, NestJS, Firestore*
- *Optimized database queries by adjusting payloads and using appropriate indices on PSQl*
- *Wrote unit tests in Jest for the features I worked on and added CICD Workflows for some microservices to automate unit tests*
- *Mentoring Junior Engineers and helping them in their tasks*

Airlift Technologies  
Associate Software Engineer

Karachi, Pakistan  
Nov 2020 - Dec 2021

- Built APIs for multiple features in NestJS
- Built multiple screens on Angular for a dedicated Portal
- Worked on multiple features on the iOS Airlift Grocery App
- Designed and optimized schemas for multiple features in PSQL

Freelance (Local & UAE Projects)  
FullStack Engineer

Karachi, Pakistan  
Mar 2017 - Nov 2020

- Completed multiple projects from production to deployment
- Worked on React Native, React, Vue, Laravel and NodeJS
- Designed and Implemented MySQL and NoSQL based databases of multiple projects
- Optimized React Native Applications on Android and iOS.  
Published 5+ Applications on Android and iOS.

Isekai Technologies  
FullStack Developer Intern

Karachi, Pakistan  
Aug 2019 - Nov 2019

- Worked on various Industry level React Native Applications
- Created Complex reusable modules
- Designed and Managed SQL databases with Laravel Projects
- Created and Optimized frontends of various Applications(Android).

## Education

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NED University of Engineering & Technology

Karachi, Pakistan  
2016 - 2020

- Candidate for Bachelors of Software Engineering (BESE)
- GPA: 3.89/4.0

## Coursework

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Programming Languages, Discrete Structures, Data Structure Algorithms and Applications, Object Oriented Programming, Logic Design and Switching Theory, Software Engineering, Comp. Architecture, Software Requirement Engineering, Database Management Systems, Web Engineering, Software Design and Architecture, Operating Systems, Computer Communication Networks, Artificial Intelligence, Software Quality Engineering, Software Project Management, E-Commerce

## Awards & Scholarship

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- Certificate of Merit (2017)  
*Presented By the then President of Pakistan, Mamnoon Hussain, on securing 2nd Position in Intermediate General Science Group, FBISE, Islamabad*
- Merit Scholarship from FBISE (2016 - 2020)