

Muhammad Abubakar

Full Stack Engineer

I'm someone driven to develop applications and learn new skills. I aim to use these abilities to help organizations grow.

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Location

Rawalpindi, Pakistan

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WORK EXPERIENCE

Full Stack Engineer Red Buffer

11/2021-Present
Responsibilities

Islamabad

- Develop scalable and performance-efficient applications.
- Architecture and database schema design.
- Continuous integration and deployments.
- Coordinate task assignments to team members and oversee the entire development life cycle.
- Conduct research and exploration of emerging tools and technologies.

MERN Stack Developer StackOne

11/2020-10/2021
Responsibilities

Rawalpindi

- Research and develop applications that are scalable and performance efficient.
- Design application architecture which includes the business logic and database design.
- Coordinate with front-end developers in the APIs integration process.
- Communicate with client directly to get the requirements.

Software Engineer Medical Transcript Billing Company (MTBC)

11/2018-10/2020
Responsibilities

Rawalpindi

- Create and Manage New/Existing applications and make necessary run time changes as per the instructions of client and supervisor.
- Developing applications to extract data from different data sources i.e. HL7 (Health Level 7), XML, excel, data scripts, flat files.
- Automating the existing application to perform the ETL (Extract, Transform, Load) process and proceed accordingly.
- Direct communication with clients and maintaining tasks and code on TFS.

ACHIEVEMENTS

Team of the Month (11/2019)

Been part of a team that has worked on very tight deadlines and client collaboration.

2nd best prize award in FYP (06/2018)

Won the 2nd best prize award in CASE open house ceremony

SKILLS

C#

JavaScript

Selenium

REST APIs

Terraform

AWS

Lambda

API Gateway

Nodejs

Express

React

Nestjs

Nextjs

SQL

NoSQL

Postgres

SQL Server

Postgis

Firebase

Firestore

Mongodb

Redis

Docker

Antd

Material UI

PROJECTS

Aidra (09/2024 - Current)

- Built AIDRA, a full-stack facility assessment platform with AI-powered video/image analysis using Next.js, FastAPI, and PostgreSQL
- Implemented multi-tenant architecture with Stripe payments, Google Cloud integration, and real-time processing via Celery workers
- Deployed on Google Cloud Run with Docker and CI/CD pipelines, featuring analytics dashboard and PDF report generation

OptimIIS (Immunization Information System) (03/2023 - 09/2024)

- Used AWS Cloud and the Serverless Framework with GitHub Actions for automated CI/CD, and Terraform for infrastructure management.
- Implemented role-based access control (RBAC) for effective user permission management.
- Tech stack: AWS Lambda, Amplify, RDS, ECS, Serverless Framework, React, SendGrid, Twilio, GitHub Actions, Terraform.

Graana (10/2022-02/2023)

- Complete revamp of graana website including the architecture.
- Microservice architecture.
- Nodejs, Express, Postgres, Redis, Nextjs, AWS Cognito.

Grubr (06/2022 - 10/2022)

- Multi-tenant based food delivery mobile application.
- Client and driver application with admin portal.
- AWS Lambda in Nodejs, AWS Pipelines, AWS Cloudwatch, Serverless Framework, React, Postgres, Stripe.

Project Erase (Polio) (01/2021 - 10/2022)

- Government-based project to eradicate polio from Pakistan by tracking the health worker by time spent in an area.
- Create grids based on the boundary of the area and change the status of grids accordingly.
- Nestis, Express, Postgres, Redis, RabbitMq, Docker.

WORK EXPERIENCE

Android Intern Techmelo

08/2018-10/2018
Responsibilities

Rawalpindi

- Perform different tasks under the supervision of lead.
- Created an app which will read all the content of phone messages and save in database (Firebase).

EDUCATION

B.S. Computer Science

CASE (Center for Advanced Studies in Engineering), Islamabad
2018

COURSES

- Databases
- Data Structures
- OOP

HSSC Pre Engineering

Punjab Group of Colleges, Rawalpindi
2014

Matric in Science

The Educators, 6th Road, Rawalpindi
2012

PROJECTS

PeerDrop (Grocery Delivery App) (11/2020 - 08/2021)

- Pricing models for different pricing slabs.
- Push notifications.
- Payment gateway (Global Payments)
- Know Your Customer (Experian)
- Complete admin dashboard which includes stats, graphs, reporting, notification and CRUD operations,
- React, Firestore, Cloud functions, Pubsub, Nodejs

Driverly (Food Delivery App) (06/2021 - 11/2022)

- Push Notifications to all the nearby drivers on order posting through data messages.
- Payment Gateway(SquareUp)
- Admin Dashboard has different role and responsibilities.
- Track real time location of drivers.

LANGUAGES

English ● ● ● ● ○

Urdu ● ● ● ● ○