



Muhammad Abdullah

## Web Developer

Web Developer adept at motivating myself. I have excellent coding and Analytics skills. In addition to my technical skills, I have excellent teamwork skills, which have helped me collaborate effectively with cross-functional teams and deliver high-quality projects on time

## Education

### Bachelor of Science: Computer Science

From September 2017 to July 2021 Bahria University Islamabad

## Work Experience

### Backend Lead

Since June 2023 Codeaza Technologies Islamabad, Pakistan

- Team Management
- Task Assignment
- Training of new recruits

### Sr. Python Developer

From June 2022 to June 2023 Codeaza Technologies Islamabad, Pakistan

- Deployed Backends on AWS EC2 and Elastic beanstalk, Heroku
- Build Docker Images for Testing Team

### Jr. Python Developer

From January 2022 to June 2022 Codeaza Technologies Islamabad, Pakistan

- Expertise in Developing API's and WebApps in Flask and Django
- Done Several big scale projects having complex databases and business logics
- Designed ERD for complex databases
- Developed CRM, POS and e-commerce Webapps

### Freelancing

From August 2020 to December 2021 Fiverr/Upwork Remote  
Completed a number of projects through freelancing platforms such as Fiverr and Upwork. Some of those projects are given below

### POS Software

From August 2020 to September 2020 Wrapsters Gujrat

- Developed a POS Software using Tkinter
- Having sales and stock management
- Multiples windows form
- MySQL database for sales and stock storage
- Managed data using DML.
- Communication with Client for successfully accomplished task

✉ sipra58@gmail.com

🔗 <https://portfolio-wf8j.onrender.com/>

📍 Islamabad  
Remote

📞 +92 313 7883995

## Social Networks



@muhammad-abdullah-090215212/



@abdullah-zia-22



@[https://stackoverflow.com/users/12579494/abdullah-579494/abdullah-](https://stackoverflow.com/users/12579494/abdullah-579494/abdullah-579494)

## Skills

### Python

### Flask REST API

### Django

### MySQL, PostgreSQL

Stored Procedures, Views, Triggers

### AWS

EC2, Elastic Beanstalk, Elastic Container Registry  
Lambda (Serverless), Secret Manager, API Gateway  
SAM, CLI

### Nginx

Nginx Reverse Proxy, Load Balancing

### Docker

Dockerfile, Images, Containers, Push and Pull Docker Hub  
Docker-Compose

### ELK

Elastic Search, Logstash, Kibana Stack

### Numpy, Pandas

### Git, GitHub

## Soft Skills

**Research Abilities**

**Problem Solving Ability**

**Understanding Assumptions**

**Collaborative**

**Teamwork**

## Languages

**English**

**Urdu**

## Assets

**Ambition**

**Patience**

**Empathy**

## Interests

**E-Sports**

**Cricket**

**Video Games**

## Projects

**Instagram Comments Filtering:** FYP, Chrome extension which hides the aggressive comments on instagram.com website in real-time using Custom API developed using TensorFlow, NLTK, NLP and Flask REST API.

**Sentimantle:** Flask REST API for a sentiment analysis project having complex database and queries. Multiple features as Data addition via File Upload, File Download, Database Views, Stored Procedures. (Currently in Production).

**OCR AWS Lambda:** Developed a robust Optical Character Recognition (OCR) solution using Python and leveraged the power of Amazon Web Services (AWS) Lambda, S3 Buckets, Docker, and Elastic Container Registry (ECR). The main objective of the project was to automatically extract text from PDF files stored in AWS S3 buckets and make the extracted data easily accessible for downstream processing and analysis. The project architecture involved setting up an AWS Lambda function that was triggered by new PDF files uploaded to an S3 bucket. Upon detection of a new file, the Lambda function used a custom-built Docker container, hosted in the Elastic Container Registry, which was pre-configured with the necessary Python OCR libraries and dependencies. The OCR container efficiently processed the uploaded PDF, extracting the textual content with impressive accuracy. The extracted text was then stored back into another S3 bucket or integrated with other AWS services for further processing or analysis, depending on the application requirements. The integration of Docker and Elastic Container Registry streamlined the deployment process, ensuring easy scalability and consistent performance for the OCR system. The entire workflow was fully automated, eliminating manual intervention and reducing processing time significantly.

**AWS Lambda REST API:** Developed a Flask-based REST API and utilized AWS Lambda with Amazon API Gateway for deployment, all while seamlessly integrating a MySQL database. API had JWT authentication. This architecture resulted in a dynamic API that efficiently managed user interactions. By combining Flask flexibility with AWS Lambda serverless power and API Gateway management capabilities, I created a high-performance solution that showcased my skills in web development and cloud integration.

**Azure Functions REST API:** Designed and developed a robust system that leveraged Flask to create a RESTful API. This API interacted seamlessly with a MySQL database, ensuring efficient data management and retrieval. What set this project apart was its integration with Azure Functions, which allowed for automatic scaling and event-driven execution. By utilizing Azure Functions, the system could efficiently process data and perform specific tasks in response to various triggers. This synergy between Flask, MySQL, and Azure Functions resulted in a powerful and scalable solution that met both performance and reliability requirements. The project success demonstrated not only my technical skills in web development but also my ability to leverage cloud services for enhanced functionality.

**Multi-Vendor Store:** REST API Having JWT authentication, invoice generation, images upload, transaction management like Daraz using Flask Restful Framework.

**Sockets:** Realtime Data fetching and updating using Socket.IO

**EKL:** Elastic Search implementation (Realtime fast indexes searching) in WebApp on large database using EKL stack, stack used by Google for searching. Also developed Logstash data pipeline for MySQL to elastic search

**Snowflake:** Data warehousing, fetching and updating large data

**Third-party API:** Integration of third party API's such as OpenAI, ShotStack, StoryBlocks in backend