



# MUHAMMAD IBRAHIM

## PROFILE

**Results-driven Software Engineer with over 3 years of experience, adept at aligning business needs with user-friendly software solutions. Proficient in translating complex specifications into scalable, maintainable code.**

As a Full Stack Engineer at Squibler, a fast-growing product-based startup, I contributed to developing innovative and efficient software solutions that streamlined operations and enhanced user experiences.

At Technogenics, a multi-million-dollar cybersecurity startup, I leveraged my expertise to automate critical SOC analyst processes, driving operational efficiency and supporting the company's rapid growth.

In my first role at Cheetay, Pakistan's largest delivery service, I helped scale operations across 18 cities, facilitating the delivery of products ranging from groceries and pharmaceuticals to festival-based items.

### Skills

Python

Flask

Django

TypeScript

Angular

Docker

Kubernetes

Git

Kafka

MongoDB

MySQL

EMPLOYMENT  
HISTORY

## Full Stack Software Engineer at Squibler, Remote

June 2024 — September 2024

- Developed custom parsers in Python Django to extract and apply complex styles and images from DOCX files into the Quill editor, ensuring seamless content rendering for users.
- Wrote and optimized prompt engineering queries, enhancing the efficiency and accuracy of AI-driven text generation processes.
- Built dynamic, user-friendly tour guide tooltips to streamline the onboarding experience and improve user engagement.
- Resolved critical bugs and eliminated code ripples in Angular, ensuring the stability and performance of key features.
- Actively participated in PR reviews and sprint meetings, providing valuable feedback and contributing to the continuous improvement of project deliverables.

## Software Engineer at Technogenics, Lahore

July 2022 — June 2024

- To make communication user-friendly, engineered a scalable solution using TipTap, a headless content editor, TypeScript, and Angular. Developed custom Nodes, Extensions, and customized existing extensions.
- Integrated Slack into our solution for seamless communication with third-party analysts. Utilized Slack's SDK to access resources and execute actions on behalf of users. Developed the module using Python Flask and stored the modeled data in MongoDB.
- Similarly integrated Microsoft Teams into our existing product by accessing Microsoft Graph APIs and acting on behalf of the user. Built the module using Python Flask and leveraged MongoDB for storage of modeled data.
- Using Python Flask, Tiptappy and Jinja 2, developed a custom JSON-HTML parser for the TipTap editor. It enabled us to generate emails with the same format as the written in the editor.
- Developed a custom Exporter to generate real-time, service-specific metrics on Grafana using Prometheus, Flask, and Kafka. This Exporter facilitated message consumption from multiple services within the Kubernetes cluster, empowering us to monitor and analyze service behavior.
- Implemented CRUD and REST solutions adhering to SOLID principles and design patterns using Neo4J, Flask, and Cypher. These solutions enabled asset creation, management of reported vulnerabilities, and correlation analysis between assets and vulnerabilities.
- Designed and developed a microservice using test-driven development (TDD), Flask, and Jinja 2 to generate SOC Analyst reports based on provided JSON data. The microservice offers customization options for report format and sections, allowing users to tailor reports according to their preferences.

- Performed ongoing maintenance of numerous microservices, Angular components, and services, including code refactoring, bug resolution, and architectural improvements. Implemented Kubernetes Jobs, developed CRUD and REST functionalities for newly introduced entities,
- Actively contributed to project progress tracking and management using JIRA. Regularly participated in both daily and monthly scheduled meetings to ensure alignment and collaboration across teams.

## Associate Software Engineer at Cheetay, Lahore

July 2021 – July 2022

- This organization, focused on delivery services, developed a custom internal app using Python Django and GIS libraries. The app's primary function was to ensure accurate drop off locations by allowing users to re-correct all their saved locations conveniently.
- Implemented custom permissions within Django Oscar's internal admin portal, effectively restricting access to CRUD models and their associated records.
- Enhanced performance by optimizing multiple MySQL queries integrated with Django's ORM, achieved through detailed debugging and analysis of query execution times.
- Designed and implemented models, CRUD operations, and RESTful solutions for diverse entities utilizing both class-based and function-based views in Django.
- Configured multiple databases in our project to handle high-throughput scenarios, specifically for storing logs generated from CRUD operations on key entities. These logs are stored in a non-structured database format.

### EDUCATION

## BSCS, Lahore Garrison University, Lahore

September 2017 – June 2021

### LINKEDIN

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