



Muhammad Taqi

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EDUCATION

Sindh Madressatul Islam University(SMIU)

Bachelors of Science (BS) in Computer Science; GPA: 3.46/4.00

Karachi, Pakistan

Oct 2020 – Sep 2024

SKILLS

Languages: PHP, Laravel, Python, Flask, Java, HTML, CSS, JavaScript

Tools: Git, MS Office, Power BI

DBMS: MySQL

Soft Skills: Problem-solving, Critical Thinking, Team Collaboration, Time Management, Leadership, Effective Communication

EXPERIENCE

RIGHT SOLUTION

Software Engineer

Karachi, Pakistan

Oct 2024 – Present

- Contributing to the development and enhancement of two core company products — Zillion Design and Free Invoice Template.
- Designed, developed, and maintained RESTful APIs for both projects using Laravel and MySQL, ensuring secure and optimized backend operations.
- Handled the complete backend development of Zillion Design and built frontend interfaces using HTML, CSS, and JavaScript.
- Collaborated with a development team on Free Invoice Template, integrating backend with a React.js frontend to ensure seamless data flow and improved user experience.
- Used Git for version control and team collaboration, following clean code and deployment best practices.
- Participating in product planning, sprint reviews, and continuous improvement of the product.

PROJECTS

AI-Powered Image Enhancement Application (BS-FYP-2024) | [GitHub](#)

- Developed an AI-Powered Image Enhancement Application (ImageWizard) using React.js for the frontend, providing a user-friendly interface for image enhancement.
- Integrate Auth0 for user authentication and efficient data management.
- Utilized OpenCV algorithms for automated image enhancements.
- Designed APIs for real-time image processing and seamless frontend-backend communication.

Hostel Management System | [GitHub](#)

- Used OOP principles such as encapsulation, inheritance, and polymorphism to structure the application.
- Connected the application to a MySQL database using JDBC for secure and real-time data handling.
- Applied exception handling, input validation, and multi-threading (where applicable) to improve performance.

ORB-Based Feature Matching System | [GitHub](#)

- Developed a feature matching application using OpenCV's ORB (Oriented FAST and Rotated BRIEF) algorithm to detect and match keypoints between two images.
- Applied computer vision techniques including feature detection, descriptor extraction, and brute-force matching to demonstrate image similarity and object recognition concepts.

Pencil Sketch Conversion | [GitHub](#)

- Developed a desktop application using OpenCV to convert images into realistic pencil sketches through image processing and edge detection techniques.
- Designed a clean, user-friendly interface enabling users to open images, preview sketches, and save results with a single click.

CERTIFICATES

Data Science

Apr 2021

DeveloperStudent Clubs– IBA

Java Programming: Solving Problems with Software

Jun 2021

Coursera

Zero to Hero in Microsoft Excel: Complete Excelguide 2021

Aug 2021

Udemy

Introduction to Python

Nov 2021

DataCamp

LANGUAGES

English

Level: Intermediate