

# 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** Karachi, Pakistan  
Oct 2024 – Present

*Software Engineer*

- 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

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<b>Data Science</b>	<i>DeveloperStudent Clubs – IBA</i>	<i>Apr 2021</i>
<b>Java Programming: Solving Problems with Software</b>	<i>Coursera</i>	<i>Jun 2021</i>
<b>Zero to Hero in Microsoft Excel: Complete Excelguide 2021</b>	<i>Udemy</i>	<i>Aug 2021</i>
<b>Introduction to Python</b>	<i>DataCamp</i>	<i>Nov 2021</i>

## LANGUAGES

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<b>English</b>	<i>Level: Intermediate</i>
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