**SYED HAB**Ī**B HAIDER**

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Professional Summary

* Innovative **Computer Vision Engineer with 2 years of experience** developing and implementing cutting-edge algorithms. I develop **SOTA** models that are **CPU** friendly. I love Objection Detection and Instance Segmentation. Live and superfast inferences on your palm is what I make possible.
* As a **MERN** stack developer, I can build web applications efficiently while adopting the **latest frameworks**. I am very confident about my FrontEnd Development Skills.

Projects and Achievements

1. Intelligent Road Quantification System
   * **Accomplished**: Optimized a computer vision pipeline for pothole detection on roads.
   * **As Measured By**: Conducting a comparative analysis of many models, modifying YOLO architecture, and embedding an HMM model.
   * **Resulting In**: Achieved over 60% mAP and high inference speed, ~**62 FPS** on CPUs, with successful object counting.
2. **WonderBikes** — A MERN STACK PROJECT
   * **Accomplished**: Developed an intuitive and aesthetically pleasing online motorcycle rental platform, with CRUD operations & other features.
   * **As Measured By** Building a dynamic React+Vite application as part of the **WonderBikes** MERN Stack project with NoSQL BackEnd, focusing on seamless user experience and responsive design.
   * **Resulting In**: A robust and scalable web app that enhances customer engagement and simplifies the rental process.

Work Experience

* Computer Science Teacher (2022 – 2023)
  + **At:** British School System, Lahore
  + Developed and implemented assessments to measure student learning outcomes and track progress.
* Computer Vision Lab Assistant (2022 – 2024)
  + **At:** University of Management and Technology, Lahore
  + Under the Supervision of Dr. Muhammad Azeem Javed, **Director Robotics and Vision Lab**.

Technical Skills

* Top of Form
* **Microsoft Office** — 3 years
* Bottom of Form
* Top of Form
* **PyTorch + PaddlePaddle** — 2 years
* Bottom of Form
* Top of Form
* **Machine Learning** — 2 years
* Bottom of Form
* Top of Form
* **Computer Vision** — 2 years
* Bottom of Form
* Top of Form
* **MERN Development** — 3 years

Bottom of Form

Others:

* Ability to Work in a Team.
* Ability to Co-ordinate and work under a fast environment.
* Robust at Research and Development.
* Very Fond of Reading History Books.
* Confident in Urdū, English, Arabic and Bilingual Presentations.

Education BS(**AI**) | CGPA: 3.1 / 4.0 | UMT

 