

Muhammad Hassan

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WORK EXPERIENCE

Fiverr – Freelance Web Developer (WordPress) Jan 2024 – Present

- Built websites for nwtech.ai, portfolios, and real estate business .
- Ensured SEO optimization and mobile responsiveness for all projects
- Managed client requirements, revisions, and delivery deadlines independently.
- Worked with plugins like Elementor, WPForms, and WooCommerce to enhance site functionality.
- Designed and developed responsive websites for clients using WordPress themes and customizations.

WORKSHOPS & TRAININGS

IET – Workshop on Computer Vision and AI in UAVs(Drones) May 2025

- Gained hands-on exposure to hardware/software integration in UAVs, CNN, neural network development, and LLM-driven perception models.
- Worked with AI engineers from Zoneomics to explore real-world applications of computer vision

PROJECTS

Detection of spoiled food and it's types in Agricultural – Dr Shoaib Azmat , Associate Professor, COMSATS 2024

- Developed a CNN capable of distinguishing between fresh and spoiled fruits with high accuracy.
- Image data collection, cleaning, labeling and augmentation techniques to improve model generalization.
- Learned to handle real-world agricultural datasets, dealing with noise, variation in lighting, and fruit types.
- Utilized tools such as Python, OpenCV, TensorFlow/Keras, Google Colab and evaluate the model effectively.
- Built proficiency in machine learning pipeline development, including training, validation, and testing phases.

Sudoku Solver using Constraint Satisfaction Problem (CSP) – Dr Imran Shazad , Associate Professor, COMSATS 2023

- Implemented a Sudoku game using AI based CSP techniques for efficient puzzle solving.
- Integrated user-friendly features such as puzzle validation, reset, and auto-solve within the GUI.
- Applied backtracking and forward-checking algorithms to ensure constraint-based solution consistency.
- Developed an interactive graphical interface using Tkinter to allow real-time puzzle input and solving visualization.

Image Restoration Using Inverse Filtering – Dr Alam Zaib , Associate Professor, COMSATS 2023

- Applied inverse filtering to reverse the degradation and recover the original image effectively.
- Explored the impact of noise and blur characteristics on restoration accuracy and filter performance.
- Modeled image degradation as a convolution process caused by motion blur, defocus, and sensor limitations.

Smart House – Smart Lighting System – Asadullah Khan , Professor, COMSATS 2024

- Designed and implemented using assembly language for embedded system.
- Employed a PIC18F452 microcontroller to control room lighting based on occupancy logic.
- Simulated in Proteus and built hardware for the system to test real-time behavior and verify functionality.

EDUCATION

COMSAT University Islamabad, Abbottabad Campus

BS Computer Engineering – CGPA 3.63/4.0 upto 7th semester

Peshawar Model Degree College Haripur

Secondary Education– Grade 948/1100 (86.18%)

LEADERSHIP/EXTRACURRICULAR

- **Member of IEEE** – Engaged in technical talks, workshops, and seminars to stay updated with emerging engineering trends.
- **Volunteer, DAWA Blood Group** – Actively participated in organizing and supporting blood donation drives.
- **Member, Welfare Board Scholarship Committee** – Contributed to identifying and resolving a problem of deserving students with educational financial aid.
- **Management Team Member** – Handled logistics and event coordination for university departmental events and batch functions.
- **University Volleyball Team** – Represented COMSATS in interdepartmental and intra-university sports events, promoting teamwork and discipline
- **Player, COMSATS University Volleyball Team** – Represent the university in official volleyball matches and tournaments, demonstrating teamwork, discipline, and sportsmanship.

ACCOMPLISHMENTS

- Topped the college in Fsc
- Got flat 4 GPA in 6 semester
- Getting third Position by making Line Following Robot Car.
- Secured 3rd position in Project Exhibition World Telecommunication and Information Technology Day, held in University. Our project was Smart House IoT based, cloud based technology

SKILLS

- **Programming languages:**
C++, PHP, Java, Python, MYSQL, Assembly, Javascript
- **Soft Skills:**
Adaptability, Problem Solving, Attention to Detail, Time Management, Effective Communication
- **Tools and Technologies:**
Mplab, Arduino, XAMPP, OpenCV, React-JS, MATLAB, WordPress, Cisco Packet Tracer, NS3, Visual Studio Code, Visual studio, Proteaus, Electronics workbench

CERTIFICATES

- **Workshop on Metavisionaries** – digital world
- **GOT 3rd position in College** – Computer Science
- **Workshop on PCB Fabrication** – Software and Hardware experience
- **Winning RoboMaker's** – Line following Robot car's, GOT third Position
- **IET EXHIBITION** – Smart house using cloud based concept, GOT third position in exhibition
- **Workshop on Computer Vision and AI in UAVs(Drones)** – hardware/software integration in UAVs, CNN, neural network