Umar Masood

Electrical Engineer, Web Developer

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An ambitious and driven electrical engineering graduate with a passion for computer science, I possess a unique blend of skills that enable me to develop innovative solutions to complex engineering problems. With a strong foundation in circuits, control systems, machine learning coupled with an interest in programming and software development, I approach challenges with a creative and analytical mindset.

EDUCATION

Bachelor of Science Electrical Engineering
Namal University Mianwali

09/2019 - 08/2023   *CGPA: 3.2*

Courses
- Circuit Analysis and Design
- Quantitative and Computational Reasoning
- Data Structures and Algorithms
- Introduction to Machine Learning
- Control Systems
- Internet Of Things (IOT)
- Database Engineering
- Digital Image Processing

WORK EXPERIENCE

Intern
Green Spark Energy Solutions

06/2022 - 09/2022

Tasks
- Assisted in designing and installing solar power systems for customers
- Testing and maintaining solar equipment, including panels, inverters, and batteries

Research and Product Development Associate Remote
Scrollsequence - Kozelsky Limited UK

Tasks
- Collaborated with cross-functional teams to develop and refine software product requirements and specifications.
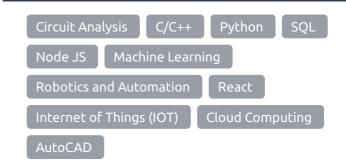
Web Developer Remote
Amsterdam Books Netherlands

Achievements/Tasks
- Lead a cross-functional team to develop web3 platform for minting ,staking NFTs and Governance DAO app.

SKILLS

Circuit Analysis · C/C++ · Python · SQL · Node JS · Machine Learning · Robotics and Automation · React · Internet of Things (IOT) · Cloud Computing · AutoCAD

UNDERGRADUATE PROJECTS

Waste Segregation for Recycling Facilities using Machine Learning (FYP) (09/2022 - 08/2023)
- Developed a convolutional neural network (CNN) model for waste object detection and classification
- Deployed the model to the google cloud plateform Vertex AI for real-time inference
- Designed a motor control system for waste separation on a conveyor belt
- Integrated the motor control system with the deployed model to automatically sort waste based on its type as biodegradable and non -biodegradable

Database Management System for PSL
- Developed a database management system for the Pakistan cricket league (PSL).
- Developed using ERD design tool and open-source software like MySQL
- The system was abled to store data related to players, teams, matches, and results.

LANGUAGES

Urdu
Native or Bilingual Proficiency

English
Full Professional Proficiency

INTERESTS

NFTs · Blockchain · web3 · Table Tennis