



# Shaheer Dastgir

Electrical Engineer

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Innovative engineer with experience in IC design, including MIPI and hardware verification. Passionate about bridging hardware and AI for cutting-edge solutions

## EDUCATION

**BACHELORS**

Namal University Mainwali

12/2021 - Present

Mianwali, Pakistan

Courses

- Object Oriented Programming.

- Embedded Systems.

- Database Engineering.

- Data Structures and Algorithms.

- Machine Learning.

- Computer Architecture.

## PERSONAL PROJECTS

- Functional Verification of MIPI (Mobile Industry Processor Interface) core using UVM-SV, GtkWave in Questasim. (10/2024 - Present)
- RISC-V Single Cycle Processor Design (10/2024 - Present)
- Hotel Managment System Using MySQL and Tkinter (03/2025 - Present)
- Using Knowledge of Database Engineering
- Obstacle Detector And line following Robot Using L293D Motor Driver
- Using knowledge of Embedded Systems
- Weather Prediction Using RNN and LSTM (10/2024 - 01/2025)
- Using the knowledge of Machine learning
- Library Management System With GUI in python

## WORK EXPERIENCE

**Jr Research Assistant**

Big Data and AI Center Namal University, Mianwali

06/2023 - Present

Achievements/Tasks

- Achievements/Tasks Gained in-depth knowledge of MIPI Core (Mobile industry Processor Interface) architecture and its real-world applications.

- Developed expertise in the MIPI framework for hardware design and verification.

- Acquired proficiency in the GCC toolchain and successfully designed a RISC-V single-cycle processor.

**Intern in Python Programming**

Digital Empowerment Network (DEN)

09/2024 - 12/2025

Achievements/Tasks

- Performed Data Analysis and Predictive Modeling.

- Automated Web Data Extraction with BeautifulSoup.

- Tackling varied, real-world projects cultivates adaptability and troubleshooting unexpected issues in code or data.

## SKILLS

Python Programming

C++ Programming

Matlab

Canva

MS Office

Problem Solving

Assembly

Content writing

Embedded Systems

Verilog HDL

Machine Learning

MySQL

Database Engineering

Communication Skills

SEO

Digital Marketing

## ORGANIZATIONS

- Big Data and AI center Namal university Mianwali (06/2023 - Present)
- Jr. Research Assistant
- Digital Empowerment Network DEN (09/2024 - 12/2025)
- Intern in Python Programming
- FES Consultants (06/2024 - 08/2024)
- Digital Marketing Internee

## CERTIFICATES

- Certificate of Participation NamalTech Expo 2025 (04/2025 - Present)
- Certification of Workshop regarding super-computing and Big Data AI
- Certification of Python Programming internship (09/2024 - 12/2025)
- Digital Marketing And SEO Certificate (07/2024 - 09/2024)
- Internship of Digital Marketing at FES Consultants.

## LANGUAGES

- English

Professional Working Proficiency
- Urdu

Native or Bilingual Proficiency
- Punjabi

Native or Bilingual Proficiency

## INTERESTS

Python Programming

UVM-SV

Research

Partnership and Collaboration

Database Engineering

RTL Design

Project Management

Digital Marketing