Muhammad Athar Waqas

**Houston, Texas**

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**Education**

Master of Science in Computer Engineering (Integrated Circuits and Systems) | 2027

**University of Houston - Clear Lake**

Bachelor of Science in Engineering Sciences (Modelling and Simulation) | 2024

**Ghulam Ishaq Khan Institute of Engineering Sciences and Technology**

# Technical Skills

* Programming Languages: VHDL, Verilog, Python, C, R, SQL, MATLAB, Java, Linux
* Tools: Quartus Prime, ModelSim, Qsys, Xilinx Vivado, Jupyter Notebook, R studio, PL/SQL, Eclipse, Microsoft Excel, Word, Power Point.

# Professional Experience

**Zong Cmpak** - **Digital Executive Trainee** Islamabad, Pakistan **|** October 2024 - July 2025

* Executed monthly postpaid billing using veris and ensured accuracy of bills posted by fetching data from servers through linux commands.
* Verified monthly commission records through db and reconciled with CRM reports to ensure data integrity.
* Coordinated with the sales and distribution team for stock definition, introduced to new number series in CRM.
* Recycled dormant numbers to optimize CRM operations.

**Evamp and Saanga** - **Software Development Intern**

Islamabad, Pakistan **|** June 2023 - August 2023

* Developed RESTful APIs using Java and Spring Framework for scalable backend services.
* Designed and implemented CRUD operations, pagination, exception handling, and data validation logic.
* Performed API testing and debugging using Postman.

# Leadership/ WORK EXPERIENCE

**University of Houston - Clear Lake** - **Teaching Assistant (Intro to Telecom and Networks)** 

Houston, United States | August 2025 - Present

* Grade and provide feedback on student assignments and quizzes to help improve performance.

**Director Liaison – SOPHEP, GIKI Model United Nation**

GIKI, Pakistan | September 2023 - June 2024

* Led cross-channel liaison and marketing teams, increasing event turnout by 50% to over 470 participants.
* Negotiated and secured PKR 450,000 in sponsorships from two corporate partners.

**Academic Project**

**Early Earthquake Warning System**

* Designed and deployed a real-time seismic detection system using Arduino Nano 33 BLE Sense (Tiny ML).
* Fabricated a shake table to replicate earthquake motion profiles for system testing.
* Achieved **3rd** place among departmental final-year projects.

**Certifications**

**Certifications:** Introduction to FPGA Design for Embedded Systems (UC Colorado) **|** Hardware Description Languages 

(UC Colorado) | FPGA Soft cores and IP Acquisition (UC Colorado).

Google Professional Data Analytics | Crash Course on Python | Machine Learning (Stanford) | Python for Data Science, AI, and Development (IBM).