

# Muhammad Zulqarnain Haider

📍 Gulshan Colony, Taxila, Pakistan    ✉ [mzh2652@gmail.com](mailto:mzh2652@gmail.com)    ☎ +92 3198082652    [in](https://www.linkedin.com/in/muhammad-zulqarnain-haider)  
[linkedin.com/in/muhammad-zulqarnain-haider](https://www.linkedin.com/in/muhammad-zulqarnain-haider)    🌐 [github.com/Muhammadzulqarnainehaider](https://github.com/Muhammadzulqarnainehaider)

## About Me

---

Computer Science student at Virtual University of Pakistan, with a strong focus on front-end development, cloud infrastructure, and machine learning. Experienced in creating user-centric interfaces with HTML5, Tailwind CSS, TypeScript, and Next.js, complemented by backend skills in Python and FastAPI. Skilled in cloud technologies like Docker, Kubernetes, and Azure. Passionate about innovation, with hands-on experience in developing modern, scalable applications.

## Education

---

2024 – Present **Bachelor of Science in Computer Science**  
Virtual University of Pakistan [vu.edu.pk](https://vu.edu.pk)

## Technical Skills

---

**Front-End Development:** HTML5, Tailwind CSS, TypeScript, Next.js  
**Back-End Development:** Python, FastAPI, Docker  
**Cloud Technologies:** Azure, Kubernetes, Docker  
**Machine Learning and AI:** Custom GPTs, Machine Learning (ML), Deep Learning (DL)

## Certifications

---

*Online Course* **Machine Learning Specialization**  
Andrew Ng, Coursera

Mastered supervised and unsupervised learning techniques, deep learning, and practical applications in various domains.

## Projects

---

### 1. E-commerce API for Modern Applications

**Objective:** Built a secure API for an e-commerce platform, handling user authentication, product management, and payment integration.

**Technologies:** FastAPI, Python, Docker, SQL, JWT.

**Impact:** Reduced response time by 40% through optimized database queries, supporting 10,000+ daily requests.

### 2. Web Scraping and Data Automation Tool

**Objective:** Developed a tool to automate data collection from e-commerce sites for competitor analysis.

**Technologies:** Python, BeautifulSoup, Selenium, Pandas.

**Impact:** Reduced data collection time by 60%, providing faster insights for strategic decisions.

## Language Proficiency

---

**Native:** Urdu

**Fluent:** English (B2 level in Listening, Reading, Writing, and Spoken Interaction)

**Proficient:** German (B1 level in Listening, Reading, Writing, and Spoken Interaction; currently improving)