

Usama Shoukat



Nationality:	Pakistan
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University/College:	Govt. Graduate College Of Science, Samanabad, Faisalabad, Pakistan (Affiliated with GCUF)
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Research Interests

I aim to advance my expertise in intelligent and data-driven computing systems that combine software engineering, distributed architectures, and secure, efficient data processing. My research interests focus on the design of scalable, energy-efficient, and trustworthy computing infrastructures that integrate machine learning, system optimization, and intelligent automation across cloud, edge, and embedded environments.

EDUCATION

Bachelor's in Computer Science (CGPA 3.51/4.00)	Oct 2019 - Sep 2023
	Govt. Graduate College of Science, Samanabad, Faisalabad, Pakistan

Specialized in programming, data structures, database systems, and software design, with practical experience in both software and web development. Developed and implemented projects that combined theoretical knowledge with real-world applications. Actively participated in team-based projects to solve technical challenges.

FSc (Pre-Engineering) Higher Secondary School	Aug 2017 - Sep 2019
	Govt. College University, Faisalabad, Pakistan

Completed FSc Pre-Engineering with a strong foundation in Mathematics, Physics, and Chemistry. Gained analytical and problem-solving skills through coursework and practical lab work, preparing for higher studies in computing and engineering fields.

ACADEMIC & PROFESSIONAL PROJECTS

- JARVIS (Final Year Project)
- E-commerce Website
- Web-based real-time video & chat application (Golang+WebRTC+WebSocket+Fiber)
- TranscripTo AI (Text to Speech, Audio to Text) using Golang
- Restaurant Management System
- Book Management System
- Email & SMS Verifier System
- Discord Bot

Languages

- English (Fluent)
- Chinese (HSK 1)
- Urdu (Native)
- Punjabi (Native)

Certificates

- Golang (Udemy)
- Practical Web Development (Udemy)
- WordPress Development (Udemy)

HONORS & ACHIEVEMENTS

- Secured 2nd position at the sub-district (Tehsil) level in academics among all students in my area.
- Registered with the Higher Education Commission (HEC), Pakistan, for recognition of academic excellence.
- Awarded a laptop by the Chief Minister of Pakistan in recognition of outstanding performance in Matriculation examinations.

WORK EXPERIENCE

Backend Engineer

Vyro AI

Oct 2024 - Jul 2025

Islamabad, Pakistan

I was responsible for developing and optimizing Golang-based services. Responsible for building scalable APIs, integrating machine learning models, and ensuring high performance and reliability of backend systems.

WordPress Developer

Freelance/AovUp

Jan 2020 - Sep 2024

Remote, Pakistan

Worked as a WordPress Developer, creating and customizing themes, plugins, and e-commerce solutions. Experienced in building responsive websites, optimizing performance, and implementing SEO best practices. Collaborated with clients to deliver tailored solutions aligned with business needs.

SKILLS & EXPERTISE

- Skilled in software engineering and distributed systems development
- Knowledge of embedded, real-time, and intelligent computing systems
- Proficient in Golang for concurrent and scalable software design
- Experienced with cloud computing, IoT, and edge-cloud collaboration
- Familiar with machine learning concepts and AI-driven intelligent systems
- Hands-on understanding of FPGA, neural network accelerators, and hardware-software co-design
- Strong grasp of networking, power-efficient computing, and system optimization
- Proficient with Docker, Git/GitHub, and deployment automation
- Strong problem-solving, teamwork, and research communication skills

EXTRA-CURRICULAR ACTIVITIES

- Active member of University Programming & Tech Society
- Volunteered in organizing university events and workshops
- Engaged in sports and fitness activities for teamwork and discipline