Curriculum vitae

PERSONAL INFORMATION	**Ali Usman**

📍 M. B. Din, Punjab/Pakistan

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Date of birth 8 January 1995 | Nationality Pakistani

APPLIED FOR PHD Program

WORK EXPERIENCE

Feb 2023 – Present Lecturer

COMSATS University Islamabad
Sahiwal, Pakistan

– Teaching software engineering and computer science subjects to students.
– Managing graduate programs
– Managing COMSATS Software House

Feb 2022 – Feb 2023 Team Lead Mobile Development

DEVGATE Consultancy
DHA, Phase-1, Islamabad (Pakistan)

– Worked on Airlift android application.
– Leading some other ongoing android projects
– Lead android developer working on client and product based android applications.
– Worked on many large scale applications from scratch and maintained some other pre-implemented applications in production.

May 2021 – Jan 2022 Team Lead Development

Heuristify, Islamabad (Pakistan)

Working on the following applications and these application are also available on Play Store.

– PSX Analytics
– BURAAK User Application
– BURAAK Driver Application
– MDU
– Created new revenue stream - Invoice app with in-app purchase to support Invoice and Estimate generation.
– Building and supporting architecture of an Android applications.
– Created a set of reusable custom UI controllers based on designers' requirements
– Created a set of utility classes to work with Google Maps based interactive UI components.
– Participating in software integration process
– Implemented Agile Scrum across Software projects and increased velocity (time-to-market).
– Standardized tools for Version Control, Scrum and reporting across Software & Firmware teams.
– Modified existing libraries for legacy support and created new libraries for an efficient development process.

Sep 2018 – Aug 2021 Junior Lecturer

COMSATS University Islamabad
Sahiwal, Pakistan

– Teaching software engineering and computer science Labs (ICP, CCN, OOP, Data Structures etc.) to students.
– Worked on various projects individually and with student in this duration.
– During this time, I worked on multiple technologies as Full Stake Developer for creating many useful software for the University.

EDUCATION AND TRAINING

2019–2021 MS - Thesis Title: "EEG signals processing using Deep Learning for Intelligent Brain-Computer Interaction"

COMSATS University Islamabad, Pakistan

This is a citation to my PhD research Article [1].

2014–2018 Bachelor of Science in Software Engineering

COMSATS university Islamabad, Pakistan

– Object Oriented Programming
– Data Structures and Algorithms
– Software Engineering Concepts
– Machine Learning
– Formal methods

RESEARCH ARTICLES

Year	Title	Journal	Impact Factor
2023	Multi-Level Deep Generative Adversarial Networks for Brain Tumor Classification on Magnetic Resonance Images.	Intelligent Automation & Soft Computing [2]	3.401
2021	Real Time Multipurpose Smart Waste Classification Model for Efficient Recycling in Smart Cities Using Multilayer Convolutional Neural Network and Perceptron.[3]	Sensors	3.847
2022	Enhanced Adaptive Brain-Computer Interface Approach for Intelligent Assistance to Disabled Peoples.[1]	Computer Systems Science & Engineering	4.397
2020	Measuring the Coolness of Folding Mobile Phones.[3]	International Journal of Computer Science and Information Security	0.702

PERSONAL SKILLS

Mother tongue   Punjabi

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	A2	B2	C2
	English Proficiency Certificate				
Urdu	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills
– Team work: I have worked in various types of teams like software teams and research teams. For 2 years I coached my company mobile development team
– Mediating skills: I attended research conferences and faculty training workshops. While working in Software industry I also attended code boot-camps.
– Intercultural skills: I am experienced at working in a Software Industry and educational sector.

Organisational / Managerial skills
– whilst working for COMSATS university I am managing COMSATS University's Software House, Graduate and Post Graduate Committees with very excellent process for productive outcomes.
– during my MS I organised a seminar series on research methods and python programming for students.

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Independent user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

Computer skills
– Excellent experience with Python
– Experience with Java-Script & Type-Script for Web Development (Node JS & React Js)
– Experience with Java, Kotlin and Dart for Mobile Development (Android Native & Flutter for android and IOS)

PUBLICATIONS

[1] Ali Usman. *Enhanced Adaptive Brain-Computer Interface Approach for Intelligent Assistance to Disabled Peoples.* 46.2: Computer Systems Science & Engineering, 2023.

[2] et al. Gondal Ali Usman. "Real time multipurpose smart waste classification model for efficient recycling in smart cities using multilayer convolutional neural network and perceptron." In: *Sensors* (2021).

[3] et al Jamil Haris. "Measuring the Coolness of Folding Mobile Phones." In: *International Journal of Computer Science and Information Security* (2020).

[4] et al Asiri Abdullah A. "Multi-Level Deep Generative Adversarial Networks for Brain Tumor Classification on Magnetic Resonance Images." In: *Intelligent Automation & Soft Computing 36.1* (2023).