Usama Nisar

dev.usamanisar@gmail.com | +92 (323) 959-9996 | [LinkedIn](#) | [Github](#)

Achievements and Awards

- **Excelled to Top 5** officers in the Ministry of Defence in 2011.
- **Fully Funded Scholarship** awarded for Bachelor's Hons. in Software Engineering by Ministry Of Defence on outstanding performance.
- IELTS (Band 7) Reading:7.5, Writing:6.5, Speaking:7.0, Listening:6.0.
- GRE (Quant 156, Analytical 3, Verbal 141).
- **Won 3rd Position in [WordSprint Developers Hackathon 3.0](#)**
- Finalist of the [**International Build Your AI App Hackathon**](#)

Education

Lahore University of Management Sciences	Lahore, Pakistan
MBA, Organizational Management (CGPA 3.3/4.0)	Aug 2017-July 2020
National University of Sciences and Technology	Islamabad, Pakistan
Bachelor in Software Engineering (CGPA 3.11/4.0)	Oct 2011-June 2015

Skills Summary

- **Programming Languages:** C++, Java, Solidity, Python. Langchain
- **Machine Learning:** PyTorch, NumPy, Tensorflow, Keras.
- **Data Engineering:** PL/SQL, Tableau, OBIEE, Oracle Data Integrator.
- **Cloud:** AWS, Oracle, Terraform, Jenkins.
- **Cyber Security:** Neo4j, Nessus, BurpSuite, Shodan

International Hackathons

- **Mentor at [GenAI.works](#)** — **Presently**
- **Participated in [MIT Quantum Computing Hackathon](#)** — Mar 2025
- **Ranked 122 out of 531 in [MIT Informatics Tournament](#)** — Jan 2025
- **Participated in the** University of Berkley Coding competition — Nov 2024
- **Participated in [NASA Space Apps Competition](#)** — Oct 2024
  - Created an application using o1 Model which gives atmospheric details of any Latitude and Longitude entered.
- **Participated in [Meta Hacker Cup 2024](#) - Closed AI Track** — Oct 2024
- **Finalist of [International Build Your AI App Hackathon](#)** — Sept 2024
  - Created business cases of our concept which provides 31,000% efficiency gain, significantly reducing computational costs and improving performance in large base systems.
- **Participated and won 3rd position in [WordSprint Developers Hackathon 3.0](#)** — July 2024
  - Led in completing the project and delivering the project in 3 days covering all features
- **Participated in [International Langflow Hackathon](#)** — July 2024
  - Led a 5 member team to build a web app using RAG and Cohere API to guide pregnant females.

Certifications

- [AWS Certified Cloud Practitioner](#)
- [Cisco Certified Network Associate](#)
- Oracle Cloud Infrastructure Foundational Associate
- Certified Ethical Hacker (CEH)

Technical Projects

- **[Augmented Reality Translation Application](#)**   Jun 2024-Present
  Collaborative Project with Dr. Jason Orlosky
  - Developed an Augmented Reality Translation Application integrating speech recognition and employed Vosk for robust speech-to-text transcription.
  - Implemented NLP techniques to process and translate spoken language into Japanese, ensuring accuracy in linguistic structure and context
  - Utilized computer vision to anchor translated text within the AR environment, creating a seamless, spatially aware translation experience.
- **[Auto Buddy-A RAG Based Car Mechanic Chatbot App](#)**   Jan 2024
  - Developed a **RAG-based app** using **Langchain**, **HuggingFace** and **FAISS** for PDF text extraction, chunking, embedding, and generating AI-powered responses based on relevant document content.
  - App-enabled users to query uploaded PDFs and receive precise insights from the generated embeddings.
- **[AWS re/ start Graduate](#)**   Nov 2023
  - Carried out an in-depth study of Linux, databases, automation of development processes, and core AWS Cloud skills.
  - Implemented Cloud Watch for monitoring website
- **Data Warehouse [ETL](#) Optimization**   Oct 2018
  - Created data models using PL/ SQL and integrated Oracle Data Integrator(ODI). Created Dashboards in OBIEE and Tableau. (Government of Pakistan)

Experience

The Millennium Universal College   Abbottabad, Pakistan
Lecturer   Mar 2024 - Present
- Taught Cyber Security, ML, and Fundamental of Programming to Undergraduate students.
- **Carried out examinations** and **helped students** complete their Projects.

Government Of Pakistan   Islamabad, Pakistan
IT Manager   Aug 2019 - Sept 2023
- **Led deployments of two data centres** for the expansion of the IT infrastructure of Pakistan Rangers.
- **Implemented Enterprise Resource Planning in the Pakistan Army**, leading the change management strategy and successfully **integrating with the supply chain and logistics** of 10 sister arms.

Government Of Pakistan   Islamabad, Pakistan
BI Team Lead   Aug 2015 - Aug 2019
- Helped the National treasury in **saving an expense of $30 million OpEX per year** through effective data storytelling.

- Developed comprehensive **data migration strategies**, successfully transferring terabytes of data from legacy systems to cloud platforms, minimizing downtime, and ensuring data integrity.

Leadership & Activities

Armed Forces   KPK, Pakistan
Logistics Officer   Oct 2005 - Nov 2011
- Independently managed the biggest tent village consisting of 2200 Tent Homes during the earthquake relief operations in 2005
- Efficiently monitored security, distribution of aid, conduct of visits, presentations to international donors and dealt with emotional issues faced by the populace.
- **Carried out training of 500 men** on food supplies and administrative well-being.

Volunteer Experience
- [Organised Gen AI Hackathon by Pak Angels](#) and performed as a Judge   2024
- [Mentored Teams in Word Sprint Hackathon 4.0](#)arranged by WP Brigade   2024
- [Conducted webinar for Meta Hacker Cup 2024](#) and helped 100+ students   2024
- [Conducted workshop on Web scraping using](#)Python   2024
- [Guest speaker at WordSprint Hackathon](#) by WPBrigade   2024
- [Conducted Lectures to 300+ students to teach](#)Python   2024
- [Working as a Technical volunteer fighting against human trafficking](#)   2020- Present
    Guardian Group (U.S)
- [Rescued families stuck in flooded areas of province KPK](#)   2010
    National Disaster Management Authority(NDMA)
- [Managed an earthquake relief camp](#)   2005
    National Disaster Management Authority(NDMA)

Contributions
- Ranked 8th globally in the [Oracle Community](#), recognized as Top Contributor in July 2023.
- Wrote articles on [Terraform](#), [DevSecOps](#), [Docker](#), and [AWS security](#) on LinkedIn and Dev.to.
- Founder of "[In the Cloud with Usama](#)" newsletter, sharing insights on cloud infrastructure.
- Authored a pivotal article on [Docker](#) deployment in Oracle Cloud Infrastructure, widely used in the Oracle community.
- [AWS Emerging Talent Community](#) Ranked in the top 100 of 15,000 members.
- [AWS AI and ML Scholarships](#) Pre-qualified for AWS AI & ML Scholarships in the AWS DeepRacer community.

Transcripts:

Bachelors

NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY
ACADEMIC TRANSCRIPT (Undergraduate)

Name: Usama Nisar	**Registration No:** 2011-NUST-MCS-BE-CSE-225
Degree: Bachelor of Computer Software Engineering	**Date of Award:** June 2015
Campus: Military College of Signals	**Date of Issue:** 10 January 2017

COURSE CODE	TITLE	CRs	GRADE	GPs
1st Semester (26 September 2011 – 21 January 2012)				
ENG-110	Communication and Interpersonal Skills	2.0	B+	07.00
MTH-132	Calculus	3.0	C+	07.50
CS-120	Discrete Mathematics	3.0	B+	10.50
CS-102	Fundamentals of Programming	4.0	B+	14.00
PS-101	Pakistan Studies	2.0	B+	07.00
CS-101	Fundamentals of ICT	3.0	B	09.00
	Sem Cr: 17.00		Sem GPA: 3.24	
2nd Semester (06 February 2012 – 01 June 2012)				
MTH-133	Engineering Mathematics	3.0	C+	07.50
BS-240	Introduction to Management	2.0	B+	07.00
CE-230	Digital Logic Design	4.0	A	16.00
PHY-184	Applied Physics	4.0	C+	10.00
ISL-101	Islamic Studies	2.0	B	06.00
CPS-335	Object Oriented Programming	4.0	C	08.00
	Cum Cr: 36.00		Cum GPA: 3.04	
3rd Semester (10 September 2012 – 13 January 2013)				
CSE-200	Software Engineering	3.0	B+	10.50
MATH-361	Probability & Statistics	3.0	B+	10.50
CSE-220	Database Systems	4.0	B+	14.00
MATH-222	Linear Algebra	3.0	B	09.00
CSE-250	Data Structures	4.0	B	12.00
	Cum Cr: 53.00		Cum GPA: 3.12	
4th Semester (28 January 2013 – 31 May 2013)				
EE-321	Computer Organization & Architecture	4.0	B+	14.00
SE-210	Software Design Architecture	4.0	B	12.00
CS-260	Human Computer Interaction	3.0	B	09.00
EE-102	Basic Electrical Engineering	4.0	C+	10.00
MATH-352	Numerical Methods	3.0	C+	07.50
	Cum Cr: 71.00		Cum GPA: 3.07	
5th Semester (09 September 2013 – 10 January 2014)				
CS-330	Operating Systems	4.0	C+	10.00
EE-353	Computer Networks	4.0	B+	14.00
HU-222	Professional Ethics	2.0	B+	07.00
SE-311	Software Requirement Engineering	3.0	B+	10.50
	Cum Cr: 84.00		Cum GPA: 3.09	
6th Semester (03 February 2014 – 07 June 2014)				
CS-380	Introduction to Computer Security	3.0	B	09.00
CS-382	Fundamentals of Cryptography	3.0	C	06.00
HU-212	Technical and Business Writing	2.0	B	06.00
SE-312	Software Construction	4.0	B	12.00
SE-320	Formal Methods	3.0	B	09.00
SE-321	Software Quality Engineering	3.0	B	09.00
	Cum Cr: 102.00		Cum GPA: 3.04	
7th Semester (08 September 2014 – 17 January 2015)				
CS-381	Network Security	4.0	B+	14.00
CS-423	Data Warehousing and Data Mining	4.0	B	12.00
CS-481	Computer Forensics	4.0	B	12.00
SE-430	Software Project Management	3.0	B	09.00
	Cum Cr: 117.00		Cum GPA: 3.06	

COURSE CODE	TITLE	CRs	GRADE	GPs
8th Semester (23 February 2015 – 26 June 2015)				
CS-483	Information Security Management	3.0	B+	10.50
EE-477	Analogue and Digital Communications	4.0	B	12.00
SE-499	Final Year Project	6.0	A	24.00
Cum Cr: 130.00	Cum GPA: 3.11	Status:	Degree Conferred	
Additional Courses Attended				
ECO-130	Engineering Economics	2.0	C+	
MATH-221	Number Theory	3.0	C	
CSL-401	Community Service Learning	2.0	Qualified	

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Registrar

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Masters

LAHORE UNIVERSITY OF MANAGEMENT SCIENCES

LUMS

Name:	Usama Nisar
Roll No.:	2019-04-0017
ID:	19628
Date of Birth:	May 42, 1986

Degree:	Executive MBA
Year Admitted:	2017-18
Year Graduated:	2019-20

COURSE CODE	DESCRIPTION	UNITS	GRADE
Fall Semester 2017-18			
E501	Management Communication	0.50	S
E521	Financial Accounting	0.50	S
E571	Quantitative Methods	0.50	S
E572	Spreadsheet Modelling	0.50	S
5013	Understanding Financial Accounting: Making More Authoritative Decisions	1.00	P
5041	Marketing Management	1.00	P
5063	Problem Solving and Decision Making	1.00	P
Fall Semester 2018-19			
5031	Operations and Supply Chain Management	1.00	P
5051	Managing People	1.00	P
5111	Managerial Economics	1.00	P-
Spring Semester 2018-19			
E531	Finance	0.50	S
E573	Mathematics for Management	0.50	S
5012	Managerial Accounting and Control Systems	1.00	P-
5021	Managerial Finance	1.00	P-
5033	Innovation and Technology Management	1.00	P+
Fall Semester 2019-20			
5022	Corporate Finance	1.00	LP
5211	Business Law and Corporate Governance	1.00	P
6071	Venture Creation	1.00	P-
Spring Semester 2019-20			
5053	Leading Organizations	1.00	P
6000	International Module; Globalization and Cross Cultural Management	1.00	S
6241	Islamic Ethics	1.00	P
6301	EMBA Project	2.00	P
6304	Business Strategy	1.00	P

Completed the graduation requirements for Executive MBA Programme, June-2020

End of Graduate Business Transcript

Official Seal

L. F. Qizilbash

Registrar

Date Printed: **17-Jul-2020**

IELTS

IELTS™

Test Report Form

ACADEMIC

NOTE Admission to undergraduate and post graduate courses should be based on the ACADEMIC Reading and Writing Modules. GENERAL TRAINING Reading and Writing Modules are **not** designed to test the full range of language skills required for academic purposes. It is recommended that the candidate's language ability as indicated in this Test Report Form be re-assessed **after two years** from the date of the test.

| Centre Number | PK015 | Date | 02/DEC/2023 | Candidate Number | 030153 |

Candidate Details

Family Name	NISAR
First Name	USAMA
Candidate ID	6110133540369

| Date of Birth | 12/05/1986 | Sex (M/F) | M | Scheme Code | Private Candidate |

Country or Region of Origin	
Country of Nationality	PAKISTAN
First Language	URDU

Test Results

| Listening | 6.0 | Reading | 7.5 | Writing | 6.5 | Speaking | 7.0 | Overall Band Score | 7.0 | CEFR Level | C1 |

Administrator Comments		Centre stamp	Validation stamp
		British Council Islamabad Pk015 www.britishcouncil.pk	IELTS

Administrator's Signature

| Date | 14/12/2023 | Test Report Form Number | 23PK030153NISU015A |

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