



Muhammad Aitsam

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Ludmilla Str 18, 81543, Munich, Germany

About me: I am looking for an organization with a solid foundation. I am ready to build new bridges and light fires. I have a lot of energy and a spirit of innovation. I'm not afraid to start from scratch.

● WORK EXPERIENCE

01/02/2021 – CURRENT – Munich, Germany
DATA PRIVACY ANALYST – THE BMW GROUP

27/04/2020 – 27/10/2020 – Germany
MASTERS THESIS – COMSYS-RWTH AND CO-SUPERVISED BY DOCTORAL STUDENT AT BMW AND TUM

Performance analysis of Differential Privacy libraries and frameworks for vehicular data marketplace.

08/2019 – 02/2020
RESEARCH INTERN – CHAIR OF COMMUNICATION AND DISTRIBUTED SYSTEMS (COMSYS) - RWTH AACHEN

Study of content insertion methods in blockchain and analysis of illegal data in Bitcoin blockchain.
Aachen, Germany

06/2017 – 06/2018
UNIVERSITY RESEARCH ASSISTANT – EMBEDDED SYSTEM TECHNOLOGIES (EST)

PCB design for the resolver to digital converter. Designing the power supply of the entire system. Programming of micro-controllers to control assembly.
Rawalpindi, Pakistan

01/2017 – 05/2017
STUDENT SOCIETIES COORDINATOR – BARANI INSTITUTE OF MANAGEMENT SCIENCES (BIMS)

Administration of student associations, organizing technical and non-technical events. Arranging counseling services for individual students.
Rawalpindi, Pakistan

01/2016 – 03/2016
STUDENT INTERN – DEPARTMENT OF SCIENCE AND TECHNOLOGY (DOST)

Analyzing energy consumption of DOST building and measures to be taken in order to minimize CO2 emissions of the building.
Davao, Philippines

● EDUCATION AND TRAINING

08/2019 – 10/2020 – Aachen, Germany
(MASTERS-2ND YEAR) ELECTRICAL AND SOFTWARE SYSTEM ENGINEERING – RWTH - Aachen

Research Internship and Masters Thesis

08/2018 – 07/2019 – Bangkok, Thailand

(MASTERS-1ST YEAR) ELECTRICAL AND SOFTWARE SYSTEM ENGINEERING – Thai-German Graduate School of Engineering

Advance Mathematics, Communication Protocols, Research Methodology, Embedded Software

03/2013 – 04/2017 – Taxila, Pakistan

BSC ELECTRICAL ENGINEERING (ELECTRONICS) – University of Engineering and Technology (UET)

Programming Fundamentals, Applied Calculus, Differential Equation, Object-Oriented Programming, Communications Skills, Numerical Analysis, Engineering Ethics, Probability & Statistics, Engineering Economics, Industrial Automation, Engineering Management, Social Sciences.

● LANGUAGE SKILLS

Mother tongue(s): URDU

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	C1	B2	B2	B2
GERMAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Python | Python (Django) | Data Science, Data Analytics, Data Visualization | Time series analysis | Data Privacy | Linux / Ubuntu | Machine Learning | Arduino & Raspberry Pi | Blockchain Technology | Smart Contracts | Solidity | Differential Privacy | Tableau | Power BI | Microsoft Excel | R

● PUBLICATIONS

Publications

- Blockchain Technology, Technical Challenges, Countermeasures for Illegal Data Insertion (Published in Engineering Journal - ISSN: 0125-8281)
- The Internet of Things (IoT) Smart Handshake Contact Information Data Logger Using OTA Technology (Presented in '3rd International Conference of Engineering Sciences- Lahore')

● NETWORKS AND MEMBERSHIPS

Memberships

- EIT Health Alumni Network
- Security and Privacy Group at RWTH Aachen
- IEEE student member
- Young Leaders Alumni at the School of Leadership

● CONFERENCES AND SEMINARS

Seminars

- UNESCO - Analysis of urban water management system
- JICA - Study results of a waste-to-energy facility
- UNICEF - World's children report
- IEEE - Future of data analytics

● PROJECTS

Projects

- Analysis of Illegal Data in Bitcoin Blockchain (Masters research project)
- Internet of things, Smart Handshake Contact Information Data Logger (Bachelors final year project)
- Home Automation
- Smart Dustbin
- Smart Green House
- Car Rental Service

● HONOURS AND AWARDS

Honours and awards

- Winner of DAAD Masters Scholarship
- Award for best final year project (Bachelors)
- Scholarship for good performance throughout bachelors degree
- Former president of Scientific Programming and Robotics Society
- Founder of social organization (Make A Difference - M.A.D)

● CERTIFICATIONS

Certifications

- Master Python Programming: Bootcamp 2020 (Crystal Mind Academy - Udemy)
- Security & Privacy of Big Data (EIT Digital - Coursera)
- Annual LCL Entrepreneurship Conference (EDI, Islamabad)
- Young Leaders Conference (School of Leadership, Pakistan)