

Shouzab Khan

Data Analyst | AWS

Highly motivated and results-oriented Data Analyst with a strong foundation in data manipulation, analysis, and visualization. Proven ability to leverage Python libraries to extract insights from complex datasets and drive data-driven decision-making. Eager to contribute technical expertise and data science knowledge to optimize processes and support innovative solutions at AWS.

WORK EXPERIENCE

Intern Information Technology May 2024 – Sep 2024
Alabama Public Television | Birmingham, AL

- Implemented data infrastructure upgrades: Migrated accounting systems from Macola 7.1 to Macola 10, resulting in a 10% improvement in data accuracy and a 5% reduction in data processing time.
- Conducted ETL processes: Ensured clean, structured datasets for analysis and reporting, leading to a 15% increase in report accuracy.
- Utilized Microsoft Dynamics 365: Automated workflows for finance, HR, and engineering teams, improving process efficiency by 20% and creating detailed documentation for user training
- Gained hands-on experience with data transmission: Worked with radio frequency and microwave systems, ensuring reliable data flow for critical operations.

Networking Teacher Assistant May 2023 – Aug 2023
University of Alabama at Birmingham | Birmingham, AL

- Collaborated with teachers to plan and execute lesson plans, ensuring alignment with curriculum standards.
- Provided students with individual and small group support, reinforcing learning objectives and improving student understanding of networking concepts.
- Assisted around 80 students in developing educational materials to support diverse learning styles.
- Shadowed the professor for different lectures and assisted students with technical challenges.
- Worked on different projects with tight deadlines, demonstrating effective time management and project execution skills.
- Utilized various technological tools: Microsoft Teams for communication, Wireshark for network analysis, and Cisco Packet Tracer for network simulation.

Cloud and Infrastructure & Data Analysis Jan 2022 – Dec 2022
Systems Limited

- Provided L1 support for cloud infrastructure: Monitored systems, ensured data availability and reliability across

CONTACT

khanshouzab123@yahoo.com
[GitHub Profile](#)
[LinkedIn Profile](#)

SKILLS

Technical Skills: Algorithms, Data Structures, Problem-Solving Skills, Binary Tress, Link lists, Dictionaries, J Unit Testing, Networking Monitoring, SQL, Git, Microsoft Dynamics 365.

Data Visualization: Tableau, Power BI

Big data Tech: Hadoop, Spark

Language & Packages: Python, C++, Java, R, TKinter, TensorFlow, Ascon, Socket, Threading, Pandas, NumPy, SkLearn, Keras, Scikit-Learn, DJITelloPy API.

Project Management tools: Jira, Trello, Azure, ClickUp, GitHub

Personal Skills: Deep thinker learns new Technologies, work in groups, initiative taker, good Communication, Problem-Solving, Critical Thinking, Curiosity for new things, works independently, Time Manageable.

CERTIFICATIONS

AWS Certified Data Engineer – Associate
Expected – Feb 2025

AWS Certified Cloud Practitioner

VALIDATION NUMBER:
[04d9e4e9947546b2b9d528a5f7a02a71](#)

Data Cleaning in Python
VALIDATION URL:
[ude.my/UC-ed08cfd5-249b-4f7a-861a-0092cf7b73d3](#)

platforms, and conducted data analysis on cloud performance metrics to optimize infrastructure, resulting in a 10% reduction in downtime.

- Diagnosed and resolved technical issues: Improved system efficiency and end-user satisfaction within cloud environments, achieving a 95% customer satisfaction rating.
- Collaborated with cross-functional teams: Ensured seamless integration of data pipelines and cloud infrastructure services, facilitating efficient data flow and processing.
- Gained practical experience with cloud technologies: Assisted in deploying and maintaining cloud infrastructure services, including AWS and cloud orchestration tools.
- Configured and optimized cloud resources: Managed virtual machines, data storage solutions, and network components to support scalable data workflows.
- Researched and implemented data processing improvements: Explored emerging technologies to enhance data processing pipelines and infrastructure reliability.
- Managed and improved operational efficiency: Developed and managed ticketing systems for task prioritization, ensured visibility and resolution of daily operations, and facilitated daily Scrum meetings to align team efforts.

Junior Software Developer SoftStack Developer

June 2021 – Dec 2021

- Developed and maintained software applications: Utilized Python and adhered to coding standards and best practices, contributing to the successful delivery of 3 key software projects.
- Collaborated effectively with cross-functional teams: Gathered requirements, delivered high-quality solutions, and participated in code reviews to ensure code quality and maintainability.
- Proficient in data manipulation and analysis: Wrote and optimized SQL queries, resulting in a 20% improvement in data retrieval speed, and utilized Python libraries like Pandas, NumPy, and Scikit-learn for data processing and analysis.
- Gained experience in machine learning: Implemented small-scale machine learning models to support project needs, achieving an 85% accuracy rate.
- Continuously enhanced technical skills: Explored new libraries, tools, and industry trends to improve project outcomes and broaden data analysis capabilities.

ACADEMIC PROJECTS

AerialAce Drone Project

Jan 2024

Software Engineering

- My role in this project was to manage the drone side programming, i.e., connecting the drone and programming the LED lights with Python.
- Programmed drones to perform predetermined shapes with LED lights, facilitating mesmerizing aerial displays.

PUBLICATIONS

Ijaz, A., Khan, A. A., Arslan, M., Tanzil, A., Javed, A., Khalid, M. A. U., & Khan, S. (2024). Innovative machine learning techniques for malware detection. *Journal of Computing & Biomedical Informatics*. <https://jcbi.org/index.php/Main/article/view/508>

Awan, I. A., Sumra, I. A., Mahmood, K., Mujahid, M. A., Khan, S., & Zaman, M. I. (2024, June 3). A reliable approach for data security framework in Cloud Computing Network. *Migration Letters*. <https://migrationletters.com/index.php/ml/article/view/10835>.

Iqbal M, Shafiq MU, Khan S, Obaidullah, Alahmari S, Ullah Z. 2024. Enhancing task execution: a dual-layer approach with multi-queue adaptive priority scheduling. *PeerJ Computer Science* 10:e2531 <https://doi.org/10.7717/peerj-cs.2531>

Iqra Ibraheem, Sadaqat Ali Ramay, Tahir Abbas, Rizwan ul Hassan, & Shouzab Khan. (2024). Identification of Skin Cancer Using Machine Learning. *Journal of Computing & Biomedical Informatics*, 7(02). Retrieved from <https://jcbi.org/index.php/Main/article/view/627>

EDUCATION

University of Alabama at Birmingham

Master of Computer Sciences
Major in Data Science

National University of Computer and Emerging Sciences

Bachelor of Computer Sciences

- I suggested which shapes we could draw in the Sky and what will be the movements of the drone.
- I also coordinated the project timeline and technical approach, so we delivered the project on time and within our budget constraints.

[Socket Programming](#)

Jan 2023

Networking

- Designed and implemented a Socket Programming project for a networking class.
- Demonstrated proficiency in TCP/IP Communication, Client-Server architecture, and Remote Communication between a student and a robot using Python.
- I used the Socket Package for this Project.

[Breaking The Captcha](#)

April 2023

Foundation Of Data Science

- Conducted an experiment for Breaking the Captcha and downloaded hundreds of images for training purposes.
- I trained hundreds of Captcha Images on my model.
- Collected around 1500 different images.
- For training purposes, I used Deep Convolutional Neural Networks.
- Each Letter in the images was treated as a single image for the Neural Network.
- Identifying a Single Letter was easier than the whole image.
- The accuracy for this was around 97 percent.

[Water Pollution Detection Through Hyperspectral Images](#)

Dec 2021

Capstone Project

- Led a Capstone project focused on Water Pollution Detection Through Hyperspectral Images.
- Utilizing advanced Image Processing Techniques and Machine Learning Algorithms (Implemented with TensorFlow).
- Collected large datasets of satellite images for training purposes.
- Environmental Monitoring Principles to analyze and visualize pollution patterns (Implemented with matplotlib, Seaborn, and sci-kit-learn).
- The project involved Mapping or Spatial Analysis; mention any experience with GIS Tools or Software (Implemented with Geopandas, Folium).