K M Zubair

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SKILLS

Programming Languages | Python, Java, JavaScript, Linux, C++, Go/Golang, R, Solidity, Assembly, MATLAB, HTML, CSS, SQL.
Frameworks | Django, Flask, FAST API, React, Asp DotNet MVC & Web form, ASP Dotnet Core, Tensorflow, Keras, PyTorch, scikit-learn, NumPy, Pandas, Seaborn, OpenCV, NLTK, spaCy, huggingface, Celery, microservices, containerization, Jenkins pipeline, Spark, jQuery, JSON, StreamLit, Dapper, Elasticsearch, K8, Doxygen, Kibana, RabbitMQ
Technologies | Github, IBM WatsonX Generative AI (LLM), IBM Cloud, Watson Discovery, GCP, AWS (S3, EC2, RDS, SQS), Azure, OpenSearch, Docker, Terraform, Kubernetes Cluster, Hadoop, Hive, Airflow, PostgreSQL, Redis, MongoDB, Vector Database, Swagger, PyCharm, NodeRed, WordPress, Xampp, VStudio, SSMS, Tableau, PowerBI, Postman, Heroku, Snowflake
Soft Skills|Team-oriented, Bias for action, Deliver results

EDUCATION

San Francisco Bay University (SFBU) | Fremont, CA **December 2025**

MSC in Computer Science, concentration in Machine Learning with Dean's scholarship (100%).
CGPA: 3.60/4.00

International Islamic University Malaysia (IIUM) | Kuala Lumpur, Malaysia **October 2022**

- BSC in Computer Science, concentration in Data Science with Merit scholarship (50%)
- CGPA: 3.77/4.00

WORK EXPERIENCE

COOLRIOTS | Queenstown, Singapore **January 2023 - December 2023**

Machine Learning Engineer | *Python, LLM, IBM WatsonX, ReactJS, Node.js, Keras, scikit-learn, Kubernetes, Docker*

- Developed multimodal LLM-based platforms in production to automate content generation and enhance content understanding and user understanding across text, speech, image, and video modalities, resulting in a 30% increase in content throughput and a 20% reduction in production time.
- Trained IBM Watson chatbots, optimizing responses to enhance search and chat experiences, improving customer satisfaction by 20%, retention by 15%, and reducing inquiry time by 40%
- Improved system scalability and performance by 40% through multithreaded Python APIs and web applications in a cloud-native architecture.
- Implemented RAG to extract legal document parameters with 90% accuracy using Vector database, LangChain, HuggingFace, MMR, Watson Discovery, and WatsonX LLM models.
- Employed Metadata model, Object model framework, Common data server, and UI frameworks along with MLOPs, LLMOPs, and genAIOPs to optimize system architecture, resulting in a 15% enhancement in system architecture efficiency.

GRADUATE SCHOOL OF MANAGEMENT UIA | Kuala Lumpur, Malaysia **March 2022 - September 2022**

SDE Intern | *Python/Django, ReactJS, Pandas, Matplotlib, Kibana, Tensorflow, Git*

- Developed and maintained web application with Python/Django for student portals, course registration, and LMS, increasing user satisfaction by 25%.
- Addressed scalability and performance issues in multitenant, on-demand environments, resulting in a 25% reduction in system response time and a 20% increase in overall system efficiency.
- Utilized advanced NLP methods (Spacy, TF-IDF) and clustering techniques (UMAP, DBSCAN) to analyze student enrollment and course data, enhancing data-driven decision-making processes within the MBA department.
- Performed data analysis and visualizations using Pandas, Matplotlib, and Kibana, generating insights from student enrollment and course data, leading to a 20% improvement in data-driven decision-making.

IIUM UNIVERSITY | Kuala Lumpur, Malaysia **August 2021 - February 2022**

Research Intern under Professor Norzaliza Md Nor| ***IJPCC Research Paper/Publication***

- Developed an autism detection system using EEG signals with 90% accuracy for children aged 4-7 through MFCC, MLP, and Russell's model.
- Implemented preprocessing techniques, reducing EEG noise by 95% and efficiently splitting brain waves.
- Analyzed emotional states, identifying negative emotions in autistic children and positive emotions in normal children during tests.

COURSEWORK

Software Project Management, Software Testing
System Analysis and Design
Practical Applications of Algorithms, Computer Vision
Object Oriented Design in Python
Data Modelling, Database Programming
Machine Learning, Intelligent Systems
Big Data Analytics, Data Science
Natural Language and Processing
Cloud Security, Computer Networking
Blockchain and Application, Web Development