Mohammad Sheharyar

Nationality: Pakistani | **Gender:** Male | **Phone number:** (+92) 3355965510 (Mobile) | **Email address:** stormbrewer@yandex.com |

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ABOUT ME

Motivated Software Engineer with 1+ years in Data Analysis, Machine Learning Deployment, and Back-End Development. Proficient in Python and Node.js for server-side logic and database management. Strong understanding of Google Cloud Platform (GCP) for cloud solutions.

WORK EXPERIENCE

🏢 IDEVNERDS – LAHORE, PAKISTAN

Business or Sector Information and communication | **Website** https://idevnerds.com/

SOFTWARE ENGINEER – 01/2025 – CURRENT

- Back-End Web Dev Intern
- Built complete RESTful APIs with Express.js for an e-commerce platform
- Optimized APIs using async processing (non-blocking) and leveraging connection pooling with ORM/ODM
- Wrote Middleware to implement JSON Web Token Authentication in cookies for separate client and admin routes
- Wrote Middleware to validate data using the Joi library before insertion into databases
- Encrypted data with the bcrypt library
- Created Dockerfiles for deploying containerized databases
- Used Docker CLI for managing images and containers
- Used Sequelize ORM and CLI to interface with MySQL and PostgreSQL databases
- Used mysql and psql CLIs, MySQL Workbench & PGAdmin
- Used Mongoose ODM to interface with MongoDB databases
- Used the mongosh CLI & MongoDB Compass
- Tested APIs with curl and Postman (VS Code extension)
- Managed project packages using Node Package Manager (npm)

🏢 MACHKNOWSOFT – ABBOTTABAD, PAKISTAN

Business or Sector Information and communication | **Website** https://www.machknowsoft.net/

SOFTWARE ENGINEER – 05/2024 – 11/2024

- Software Development Intern
- Created Python application software
- Created GUIs using Python tkinter library
- Created websites/web apps using Flask micro-framework
- Wrote test cases and unit tests for apps
- Created scripts for Linux Bash using Python os, shutil and psutil modules
- Managed project packages using Python Package Manager (pip)

PROJECTS

Gen AI course Capstone Project

- Utilized Google Gen AI Python SDK to develop a solution for AI-generated Subtitles for the Deaf and Hard of Hearing (SDH) in a structured JSON format with few-shot prompting
- Interpreted American Sign Language (ASL) using the grounding feature to ensure accuracy in lieu of a Retrieval Augmented Generation (RAG) solution

Link https://www.kaggle.com/code/mohammadsheharyar/sdh-generation-with-google-gen-ai

Data Analysis Project

- Used the Pandas and NumPy libraries to generate and then simulate the analysis of Social Media post categories
- Cleaned data with dataframe methods
- Used dataframe methods and Matplotlib plots to visualize and analyze data

Link https://github.com/M0S111/Coursera-DataAnalysis-Project/blob/main/SocialMediaDataAnalysis.ipynb

Personal Website

○ Used Synchronized Multimedia Integration Language (SMIL) with HTML SVG elements to create an unorthodox navigation menu
○ Used jQuery animate() and css() methods with CSS keyframe animations to create a neon glow effect
○ Created a simple loop-around carousel to display certificates
○ Called an external jokes API using JavaScript Fetch API to serve programming jokes from JSON payloads
○ Shortened page loading time with lazy loading of images

Link https://m0s111.github.io/

Recommendation System (University Capstone)

○ Created a hybrid recommendation system for Western movies and deployed it as a single-page application (SPA)
○ Implemented the system as a Machine Learning model using the k-Nearest Neighbors algorithm using the scikit-learn library
○ Stored the model as a serialized Pickle file
○ Ran the model as a Flask app on a WSGI server

Link http://msheharyar111.pythonanywhere.com/

EDUCATION AND TRAINING

09/2018 – 09/2023 Lahore, Pakistan
BACHELOR OF SCIENCE Virtual University of Pakistan

Website https://vu.edu.pk | **Field of study** Software and applications development and analysis | **Level in EQF** EQF level 6

SKILLS

Web Development | JavaScript | ECMAScript | Node.js | Express.js | Python | Flask | Git | Github | HTML | CSS | Linux | JSON | REST | RESTful api | Postman | Agile (Scrum) | Relational databases | SQL | MySQL | PostgreSQL | NoSQL | MongoDB | Docker | Unit Testing | Google Cloud Platform | Pandas | Jupyter Notebooks | Object Oriented Programming (OOP) | Artificial Intelligence (AI) | Data Analysis

CERTIFICATES

Google IT Automation with Python

Link https://coursera.org/verify/professional-cert/K5LZWFKPHB9F

Google Project Management

Link https://coursera.org/verify/professional-cert/L5XJ3J2MTCPL

UC San Diego ALGS200x: Algorithmic Design and Techniques

Link https://courses.edx.org/certificates/778698a318064eb2b48c950684885c9c

UC San Diego ALGS201x: Data Structures Fundamentals

Link https://courses.edx.org/certificates/df74a80d90e74d1a80c4b839737748e6

LANGUAGE SKILLS

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C1
JAPANESE	B1	B1	B1	B1	A2

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