Talha Munir

FULL STACK SOFTWARE ENGINEER

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Location: Lahore, Punjab, Pakistan

Objective

Experienced software engineer with a strong grip on full-stack software development skills and team management. Experienced in multiple programming languages, databases, frameworks, DevOps, and cloud services. Proficient in full-stack web and desktop development.

Experience

AndyBlum.io | Director of Software Engineering   **03/2024 - Present**

- Led the development and optimization of data engineering solutions, focusing on creating efficient ETL processes to handle large-scale data ingestion and transformation.

- Designed and implemented robust data pipeline instrumentation enabling real-time monitoring and logging.

- Utilized BigQuery (Google Cloud Services) and Snowflake, to handle and analyze big data efficiently.

- Developed user-friendly interfaces to provide clear visibility and monitoring capabilities for ETL pipelines, enabling real-time tracking and troubleshooting of data processes.

Dubizzle Labs | Associate Software Engineer   **8/2023 - 03/2024**

- Streamlined and optimized complex database queries to improve performance and efficiency, resulting in faster response times and reduced server load.

- Optimized asynchronous job scheduling and processing, achieving a 50% cost reduction on compute engines (EC2 instances) by enhancing resource utilization and minimizing unnecessary computations.

- Contributed to the development and enhancement of multiple payment-related features, integrating with Checkout to ensure secure and seamless transactions.

- Utilized Laravel and Next.js for backend and frontend development, respectively, and managed data storage using MySQL and PostgreSQL.

- Worked closely with cross-functional teams to ensure smooth integration of new features, maintaining high standards of code quality and adherence to industry best practices.

- Wrote comprehensive test cases covering complex integrations that minimized the risk of regression issues.

AndyBlum.io | Director of Application Development　　　　　　　**10/2022 - 06/2023**

- Led the successful execution of 5+ high-impact projects in the Data Engineering and News domains.
- Stayed at the forefront of industry-standard technologies, mentoring and guiding a team of 5+ junior developers to enhance their technical skills and project contributions.
- Played a key role in strategic planning, influencing the direction of application development, and ensuring alignment with business objectives.

AndyBlum.io | Full Stack Software Engineer　　　　　　　**07/2021 - 09/2022**

- Planned, wrote, and debugged high-performance web applications, ensuring accuracy and reliability across various projects.
- Developed a robust, generic framework designed to support multiple applications by emphasizing reusable and maintainable code.
- Used ReactJS, Tailwind, and NodeJS for frontend development, while utilizing Python and Java for backend processes and functionality.
- Managed a comprehensive suite of AWS cloud services, including S3, EC2, Lambda, CloudFront, Amplify, and Cognito, to support scalable and secure applications.
- Implemented GitLab's Continuous Integration and Continuous Deployment (DevOps) pipelines.

Education

FCIT (PUCIT), University of the Punjab | Bachelor in Software Engineering　**2019 - 2023**
CGPA: 3.93

Distinction: Achieved 2nd position in the entire program.

Concordia College | Intermediate (Higher Secondary School Certificate)　**2017 - 2019**
Grade: A+

Subjects: Mathematics, Physics, Chemistry

Distinction: Secured 1st position in the college.

Lahore | Matriculation (Secondary School Certificate)　　　　**2015 - 2017**
Grade: A+

Subjects: Mathematics, Physics, Chemistry

Distinction: Secured 1st position in the school.

Skills

- **Programming Languages:** C, C++, C#, Java, Python, PHP, JavaScript, TypeScript
- **Artificial Intelligence:** LangChain, LangGraph, Hugging Face Transformers, Hugging Face Spaces, OpenAI API, AI Agents, Retrieval-Augmented Generation (RAG)
- **RDBMS:** MySQL, Oracle, SQLite, MariaDB, PostgreSQL
- **Data Warehouse:** Snowflake, BigQuery
- **NoSQL:** DynamoDB
- **Cloud Services:** Amazone Web Services (Lambda, S3, CloudFront, API Gateway, Cognito, Amplify, EC2, DynamoDB), Google Cloud Platform (BigQuery)
- **Web Development:** ReactJS, NextJS, Laravel, Django, Flask, REST, HTTPS, API Development
- **DevOps:** GitLab CI/CD, GitHub Actions, Docker
- **Desktop Development:** Electron, WinForms
- **Android Development:** Java (Android Studio)
- **Tools:** Git, G Suite, MS Office
- **Soft Skills:** Leadership, Team Management

Projects

Food Reality (Final Year Project)

- Developed an AR-based platform for customers to view restaurant food items in augmented reality.
- Led the team and worked on full stack web development using AWS, PostgreSQL, ReactJS, NodeJS, Python, and Flask.

Anti-Vehicle Lifting System

- Designed and managed databases, developed desktop apps, and contributed to a vehicle theft verification system.
- Technologies used: C# (.NET), Python, PyQt, MariaDB, Java (server development).

Reddit Discord Bot

- Developed a Python-based Discord bot that retrieves and filters posts from Reddit.
- Deployed on Heroku, scheduled to run nightly.

CV Generator

- Created a web-based CV generator using JSP and MySQL, allowing users to create professional CVs.

Email Service

- Developed a web-based email service using ASP .NET Core and PostgreSQL, with a user-friendly interface.

Al-Quran App

- Android app developed using Java, storing Quranic data in SQLite, offering English and Urdu translations.

Password Generator

- Python-based tool for generating random passwords hosted using Flask on Render cloud.

Hotel Booking App

- Full stack development using React (frontend) and Django (backend) for a hotel booking platform.

News Email

- Developed a Python-based service to scrape news articles and email curated content to subscribers.
- Deployed using Docker on CapRover.

Certifications

- **Webcamp** (Google Developer Student Club, PUCIT - 02/2021)
- **MTA: Introduction to Programming Using Python - Certified 2020** (Microsoft - 12/2020)
- **Neural Networks and Deep Learning** (deeplearning.ai - 07/2020)
- **Freelancing** (DigiSkills.pk - 06/2020)
- **Wordpress** (DigiSkills.pk - 06/2020)
- **Python for Everybody Specialization** (University of Michigan - 05/2020)
- **Capstone: Retrieving, Processing, and Visualizing Data with Python** (University of Michigan - 05/2020)
- **Using Databases with Python** (University of Michigan - 05/2020)
- **C for Everyone: Programming Fundamentals** (University of California, Santa Cruz - 02/2020)
- **Programming for Everybody (Getting Started with Python)** (University of Michigan - 04/2020)
- **Python Data Structures** (University of Michigan - 04/2020)
- **Using Python to Access Web Data** (University of Michigan - 04/2020)

Languages

- **English:** Native Proficiency
- **Urdu:** Native Proficiency