Daniyal Hassan

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Summary

I am a Software Development Engineer having 2+ years of experience in software industry and 2.5+ years of experience as a Freelancer in the domain of data science and web development.

Education

2023 - present	Masters's Degree in Data Science at **FAST NUCES**	(GPA: 3.45/4.0)
2018 - 2022	Bachelor's Degree in Computer Science at **FAST NUCES**	(GPA: 3.18/4.0)
2016 - 2018	Pre Engineering, Karachi Board	(Grade: A*)

Work Experience

Software Engineer II, Matrix System   April 2022 - Present

As a Software Engineer II at Matrix System, I play a pivotal role in the development of MARS, an advanced enterprise application revolutionizing modern portfolio management.

- Spearheaded the development of a high-performance Spring Boot enterprise application, optimizing over 10 million portfolio accounts daily.
- Achieved a 30% reduction in response time and a 40% increase in throughput through meticulous performance profiling and code refactoring.
- Part of the team responsible for developing the application's infrastructure and deployment pipeline. Using Docker, Kubernetes, and Github actions to deploy containers on AWS ECS and Azure AKS services.
- Introduced a highly efficient bulk loading feature, reducing processing time by 20% and boosting throughput by 35%, as detailed in my Medium article [Link to the Bulk Loading Article].

Projects

Web Applications
- The social Media application where students can managed and registered themselves for the university events, become a part of different societies and can be up to date by the news feeds.
- The Hotel Reservation system is also created so the person can easily reserved their bookings and a voice bot is also created as a front desk.

Neural Machine Translation
Text to python Code and SQL Queries generation using the Transformers(fine-tune the google T-5 and also engineered the google BERT as an encoder and OpenAI GPT-2 as Decoder).

Skills

Non-Tech –	Can Do attitude, expert communicator, Time Management, Team Work. Level-II Client IT support
Technical –	Java, Spring Boot, Spring Data JPA, Spring Security, Python, Fast API, SqlAlchemy, Pydantic, API Development, Keras, Numpy, Pandas, C/C++, STL, Docker, Linux, RDMS, MS-SQL
Hands-on –	Kubernetes, Helm, Tomcat, Docker, TensorFlow, Azure