MUHAMMAD HASSAN SHAH

• hassanshah2662@gmail.com • +92 311 9620966 • Islamabad, Pakistan
www.linkedin.com/in/hassan-shah

SUMMARY

I am an enthusiastic, reliable, friendly, responsible and hard working person, my academic career is impressive, I am able to work well both in a team environment as well as individual. Seeking a challenging executive role to leverage technical expertise and drive engineering excellence.

WORK EXPERIENCE

Software Engineer, Secure Tech Consultancy (Pvt) Ltd   **April 2024 - Present**

- As a Software Engineer specializing in backend development using Java 21 and Spring WebFlux in a reactive programming environment. Currently working on a national-level fintech project related to amount disbursement systems, ensuring seamless data flow and transaction management.
- Key Responsibilities:
- Working on a national-level fintech project focused on an amount disbursement system.
- Performing complex MySQL queries for data retrieval and updates, ensuring efficient database operations.
- Managing and generating comprehensive project reports, providing valuable insights for stakeholders.
- Tools and Technologies:
- Leveraging Java 21 and Spring WebFlux to build scalable and reactive web applications.
- Employed MySQL databases for data storage, retrieval, and analysis.
- Use postman tool for api testing.

Java Developer, Switch Communications   **Aug 2022 - April 2024**

As a Telecommunications Java Developer, I have been instrumental in the design, development, and management of critical telecommunication components, employing cutting-edge technologies and frameworks. My primary focus has encompassed , SMS Handlers, USSD Modules, Sigtran, Charging Gateway and Provisioning modules.
Key Responsibilities:

- Designing, implementing, and maintaining SMS Handlers to ensure efficient and reliable SMS communication.
- Developing and optimizing USSD Modules for interactive and real-time user engagement.
- Configuring and enhancing Provisioning module for smooth service activation and provisioning.

Technologies and Tools:

- Utilized Spring Boot and Java to create robust and scalable telecom solutions.
- Implemented Redis for caching and improving data retrieval speed.
- Leveraged Kafka for real-time data streaming and event-driven architecture.
- RabbitMQ for messaging broker.
- Employed SQL databases for data storage, retrieval, and analysis.
- Handle Prometheus metrics in code for Prometheus graph for better understanding of stats. In this role, I have contributed to the seamless operation of telecommunications services, ensuring high reliability, low latency, and optimal performance across various gateways and modules

Lab Instructor, Capital University of Science & Technology   **Aug 2020 - Aug 2022**

As a University Lab Instructor, I have played a pivotal role in nurturing the next generation of IT professionals by imparting knowledge and practical skills in Database Management, Artificial Intelligence, and Operating Systems.

Key Responsibilities:
- Conducting lab sessions for Database Management, Artificial Intelligence, and Operating Systems courses.
- Teaching students fundamental and advanced concepts in Python, HTML/CSS, and SQL.
- Evaluating student assignments, projects, and performance during lab sessions.
- Providing mentorship and guidance to students to enhance their problem-solving abilities.
- Ensuring a safe and conducive learning environment within the lab.

Technologies and Tools:
- Utilized Python and C++ as primary programming languages for teaching.
- Introduced students to HTML/CSS for web development fundamentals.
- Taught SQL for effective database querying and management.
- Incorporated AI libraries and frameworks to explore practical AI applications.

In this role, I have contributed to the academic growth of students by equipping them with essential skills in software development, database administration, and artificial intelligence while fostering a deeper understanding of operating systems.

EDUCATION

Master in Data Science   **Sep 2022 - Present**

Capital University of Science & Technology
- Research topic "Fake tweets detection on twitter using hybrid techniques"

Bachelor of Science in Software Engineering   **Aug 2016 - Aug 2020**

Capital University of Science and Technology
- FYP title "Soft Voting System".

ADDITIONAL INFORMATION

- **Technical Skills:** Software Documentation • Provisioning • MySQL Server • Redis • Apache Kafka • RabbitMQ • Soap APIs • REST APIs • SMS Handlers • Spring Boot • Spring Web Flux • JWT Token
- **Languages:** English, Urdu
- **Certifications:** front end fundamental - Pirple , AI for Everyone - PIAIC
- **Awards/Activities:** Dean of Honor - Capital University of Science & Technology