Hanzala Bhutto

• 01257 Dresden, Germany

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Objective _

Software Engineer with a proven ability to adapt in solo and collaborative environments while focused on achieving high-quality results. Eager to obtain a WerkStudent/Praktikum position as a Software Engineer where I could further improvise and showcase my skills.

Education _

MS Distributed Systems Engineering, Technische Universität Dresden

• Salient Courses: Transactional Information Systems, Ubiquitous Systems, System Design, Distributed **Systems**

Dresden, Germany

BS Software Engineering, FAST NUCES

• CGPA: 3.78/4.0 (1.3 German Grade)

- Salient Courses: Object Oriented Programming, Data Structures, Algorithms, Operating Systems, Database Systems, Software Design, Computer Networking, Web Engineering, DevOps
- Achievements: 7x Dean's list, 1x Rector's list, Magna Cum Laude, Silver Medalist.
- Societies: FAST Data Science Society Core Team Member

Experience _

Software Engineer, **Goodcore** (Full-Time)

• I worked on "Briefing Source". My main responsibilities included:

- Developed AI-powered chatbots using LLMs, enhancing task efficiency for 60+ enterprise clients.
- Integrated Laravel APIs as a knowledge source for LLMs, ensuring fact-based intelligent answers.
- Designed optimized DB stored procedures in PostgreSQL, reducing API latency by 30%.
- Implemented Redis-based caching mechanisms, achieving a 20% improvement in system performance.
- Deployed AI service using Docker, streamlining production deployments.
- Attended Daily Sync-Up Meetings to discuss the tasks and receive critical feedback. Tech Stack: Python, Flask, Fast, PHP, PostgreSQL, Redis, AWS Bedrock, Docker, Bitbucket

Junior Software Engineer, Trafix (Full-Time)

• I worked on a Stock Trading Application. My main responsibilities included:

- Enhanced the global trading platform supporting equities and options.
- Customized user interfaces, including layouts, hotkeys, and data displays, improving client satisfaction.
- Contributed to the development of multi-client server applications, enabling real-time scalability. **Tech Stack:** C#, C++, Priority Queues, SQL, Multi-Client Server Architecture.

Software Engineer Intern, One Technology Services (Full-Time)

- I worked on "Derouze" and "Dukaan". My main responsibilities included:
- Revamped frontend components for two platforms, improving UI performance by 25%.
- Managed UI state using MobX, ensuring seamless real-time updates across components.
- Consumed Backend APIs on Frontend to display dynamic data on the application UI.
- Wrote Technical Documentation and fixed Bugs.

Tech Stack: HTML, CSS, Javascript, Typescript, Angular, MobX, Ant Design.

Projects _

Multi-Client Based Server Application

• Engineered a socket programming-based server to manage concurrent sessions for multiple clients.

- Enabled clients to send messages and large files (up to GBs) to the server simultaneously.
- Utilized queues at both ends to handle incoming packets efficiently.

Tech Stack: C++, Object Oriented Programming, Asio.io

Proctowise (Final Year Project)

• Designed a customized evaluation and proctoring platform for online coding competitions.

- Integrated Judge0 for code evaluation, Firebase for image uploading, and Face API for image processing.
- Deployed the Front-end on Vercel and the Back-end on Azure.

Tech Stack: Typescript, React, Next.js, Node, Nest.js, MongoDB, NoSQL, Firebase, Face API, Judge0, Git, Azure

Oct 2024 - Present

Karachi, Pakistan Sept 2020 - June 2024

Karachi, Pakistan July 2024 - Nov 2024

Karachi, Pakistan June 2024 - July 2024

Karachi, Pakistan

June 2023 - Sept 2023

June 2024 - July 2024

Oct 2023 - May 2024

Chat To Your Database Nov 2023 – Dec 2023

• Implemented NLP-based application enabling intuitive interaction with databases using natural language.

• Leveraged LangChain, SQL Agents, and LLMs for read/write database operations based on SQL schema.

Tech Stack: Next.js, Nest.js, PostgreSQL, SQL, OpenAl, Langchain, Git, Docker

Multi-Disease Prediction System

Apr 2023 - May 2023

• Built a web-based predictive model for disease diagnosis using user-provided symptoms.

• Integrated machine learning algorithms for accurate disease probability prediction.

Tech Stack: React, Express, MySQL, Python, Support Vector Machine, Logistics Regression

Technical Skills

Programming Languages: Python, Java, Javascript, Typescript, PHP, C, C#, C++

Frontend: HTML, CSS, React, React-Native, Next, Angular **Backend:** Node, Express, Nest, Laravel, Flask, FASTAPI

Databases: PostgreSQL (SQL), Firebase, Oracle (SQL), MySQL (SQL), MongoDB (NoSQL)

Other Tools: Git, GitHub, Bitbucket, Docker, Redis, Generative Al, LLMs, Postman, Azure, AWS Bedrock, Software Documentation, Agile

Methodoligies.

Soft Skills _____

Problem SolvingCritical Thinking

- Teamwork and Collaboration
- Self-Reliance

- Adaptability
- · Attention to Detail

Language Skills _

English C1 German A1

Certificates

Introduction to Large Language Models, Google Cloud	Aug-2024
Introduction to Generative AI, Google Cloud	Aug-2024
Docker Training Course For The Absolute Beginner, KodeCloud	Oct-2023
Version Control, META	Jun-2023
Introduction to Mobile Development, META	Jun-2023
Developing Front-End Apps with React, IBM	Apr-2023
React Basics, META	Apr-2023
Programming With JavaScript, META	Apr-2023
The Complete Web Developer in 2023, Zero to Mastery	Jan-2023
Data Structures + Algorithms, Zero to Mastery	Sept-2022
Python Fundamentals Track, DataCamp	Feb-2022