Hanzala Bhutto

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Date Of Birth:	26.03.2002	**Place of Birth:**	Karachi, Pakistan

Objective

Software Engineer with a proven ability to thrive both independently and in collaborative environments, consistently delivering high-quality results. Seeking a **Werkstudent/Praktikum position** as a **Software Engineer** to further enhance and demonstrate my skills.

Experience

Software Engineer — July 2024 – Nov 2024
Goodcore — Pakistan

- I worked on **"Briefing Source"**. My main responsibilities included:
- Developed AI-powered chatbots using LLMs, enhancing task efficiency for 60+ enterprise clients.
- Designed optimized DB stored procedures in PostgreSQL, reducing API latency by 30%.
- Implemented Redis-based caching mechanisms, achieving a 20% improvement in system performance.

Junior Software Engineer — June 2024 – July 2024
Trafix — Pakistan

- Enhanced the global trading platform for a C#/C++ Stock Trading App, improving performance by 25%.
- Customized user interfaces, including layouts and data displays, improving client satisfaction by 20%.
- Contributed to developing multi-client server applications, reducing server response time by 15%.

Software Engineer Intern — June 2023 – Sept 2023
One Technology Services — Pakistan

- I worked on **"Derouze"** and **"Dukaan"**. My main responsibilities included:
- Revamped frontend components for two platforms using Angular, improving UI performance by 25%.
- Wrote Technical Documentation and fixed 20+ UI Bugs.

Teaching Assistant (Programming) — Sept 2022 – June 2023
National University of Computer and Emerging Sciences — Pakistan

- Served as a teaching assistant for two courses "Programming Fundamentals" and "Object-Oriented-Programming".
- Graded 100 students' sessional work and guided students on assignment and quiz related queries.

Education

Masters in Distributed Systems Engineering — Oct 2024 – Present
Technische Universität Dresden — Dresden, Germany

- **Focus Areas:** Transactional Systems, Ubiquitous Systems, System Design, Distributed Systems

Bachelors in Software Engineering — Sept 2020 – June 2024
National University of Computer and Emerging Sciences (FAST) — Pakistan

- **CGPA**: 3.78/4.0 (1.3 German Grade)
- **Focus Areas:** Software Design, Database Development, Web Engineering, Mobile Development, DevOps.
- **Achievements:** 7x Dean's list, 1x Rector's list, Magna Cum Laude, Silver Medalist.

Personal Projects

Multi-Client Based Server Application — June 2024 - July 2024

- Engineered a socket programming-based server to manage concurrent sessions for 5+ clients.
- Enabled 5+ clients to send messages and large files of sizes up to 5GB+ to the server simultaneously.

Proctowise — Oct 2023 - May 2024

- Designed an evaluation and proctoring platform for online coding competitions supporting 100+ users.
- Integrated Judge0 for code evaluation, Firebase for image uploading, and Face API for image processing, improving processing time by 30%.

Chat To Your Database   Nov 2023 – Dec 2023
- Developed an NLP-based application enabling intuitive interaction with databases using natural language.
- Utilized LangChain, SQL Agents, and LLMs for database operations supporting 10+ database schemas.

Multi-Disease Prediction System   Apr 2023 – May 2023
- Built a website for disease diagnosis prediction using user-provided symptoms achieving 80% accuracy.
- Combined two machine learning algorithms to predict diseases related to "heart" and "diabetes".

Bank Management System   Dec 2021 – Jan 2022
- Developed desktop-based banking for managing accounts and transactions, supporting 1000+ users.
- Applied Human-Computer Interaction (HCI) principles to enhance user experience by 25%.

Pharmacy Store Management System   June 2021 – July 2021
- Created a pharmacy management system to handle sales and reporting, streamlining it for 50+ stores.
- Implemented features for stock tracking and automated billing, reducing operational errors by 15%.

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, Bitbucket, Docker, CI/CD, Kubernetes, Generative AI, Rest APIs, Azure, AWS, Software Documentation, Agile Methodologies.

Soft Skills

- Problem Solving
- Critical Thinking
- Teamwork and Collaboration
- Self-Reliance
- Adaptability
- Attention to Detail

Language Skills

- English C1
- German A1

Hobbies

- read self-motivational books.
- play video games.
- watch action movies.

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