

# Hanzala Bhutto

**Email:** [bhutto.hanzala@gmail.com](mailto:bhutto.hanzala@gmail.com)  
**Phone:** +49 170 9078210  
**Address:** Nickerner Str. 2, 01257, Dresden  
**Date Of Birth:** 26.03.2002

**LinkedIn:** [linkedin.com/in/hanzala-bhutto](https://linkedin.com/in/hanzala-bhutto)  
**GitHub:** [github.com/hanzala-bhutto](https://github.com/hanzala-bhutto)  
**Portfolio:** [www.hanzala-bhutto.com](https://www.hanzala-bhutto.com)  
**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

Goodcore

July 2024 – Nov 2024  
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

Trafix

June 2024 – July 2024  
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

One Technology Services

June 2023 – Sept 2023  
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)

National University of Computer and Emerging Sciences

Sept 2022 – June 2023  
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

Technische Universität Dresden

Oct 2024 – Present  
Dresden, Germany

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

### Bachelors in Software Engineering

National University of Computer and Emerging Sciences (FAST)

Sept 2020 – June 2024  
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%.

<b>Chat To Your Database</b> <ul style="list-style-type: none"> <li>Developed an NLP-based application enabling intuitive interaction with databases using natural language.</li> <li>Utilized LangChain, SQL Agents, and LLMs for database operations supporting 10+ database schemas.</li> </ul>	Nov 2023 – Dec 2023
<b>Multi-Disease Prediction System</b> <ul style="list-style-type: none"> <li>Built a website for disease diagnosis prediction using user-provided symptoms achieving 80% accuracy.</li> <li>Combined two machine learning algorithms to predict diseases related to "heart" and "diabetes".</li> </ul>	Apr 2023 – May 2023
<b>Bank Management System</b> <ul style="list-style-type: none"> <li>Developed desktop-based banking for managing accounts and transactions, supporting 1000+ users.</li> <li>Applied Human-Computer Interaction (HCI) principles to enhance user experience by 25%.</li> </ul>	Dec 2021 – Jan 2022
<b>Pharmacy Store Management System</b> <ul style="list-style-type: none"> <li>Created a pharmacy management system to handle sales and reporting, streamlining it for 50+ stores.</li> <li>Implemented features for stock tracking and automated billing, reducing operational errors by 15%.</li> </ul>	June 2021 – July 2021

## Technical Skills

<b>Programming Languages:</b> Python, Java, Javascript, Typescript, PHP, C, C#, C++
<b>Frontend:</b> HTML, CSS, React, React-Native, Next, Angular
<b>Backend:</b> Node, Express, Nest, Laravel, Flask, Fastapi
<b>Databases:</b> PostgreSQL (SQL), Firebase, Oracle (SQL), MySQL (SQL), MongoDB (NoSQL)
<b>Other Tools:</b> Git, Bitbucket, Docker, CI/CD, Kubernetes, Generative AI, Rest APIs, Azure, AWS, Software Documentation, Agile Methodologies.

## Soft Skills

<ul style="list-style-type: none"> <li>Problem Solving</li> <li>Critical Thinking</li> </ul>	<ul style="list-style-type: none"> <li>Teamwork and Collaboration</li> <li>Self-Reliance</li> </ul>	<ul style="list-style-type: none"> <li>Adaptability</li> <li>Attention to Detail</li> </ul>
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## Language Skills

<ul style="list-style-type: none"> <li>English C1</li> </ul>	<ul style="list-style-type: none"> <li>German A1</li> </ul>
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## Hobbies

<ul style="list-style-type: none"> <li>read self-motivational books.</li> </ul>	<ul style="list-style-type: none"> <li>play video games.</li> </ul>	<ul style="list-style-type: none"> <li>watch action movies.</li> </ul>
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## Certificates

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