Syed Zeeshan Ali
gecezeeshan@gmail.com
+971 50 2195152
Khalifa City, Abu Dhabi, UAE
04/07/2025

Prof. Dr.-Ing. Matthias Böhm
Technische Universität Berlin
Fakultät IV – Institute of Software Engineering and Theoretical Computer Science
FG Big Data Engineering
Ernst-Reuter-Platz 7
10587 Berlin
jobs@dams.tu-berlin.de

Subject: Application for Research Assistant Position (PhD Candidate) – Big Data Engineering (DAMS Lab)

Dear Professor Böhm,

I am writing to express my strong interest in the **Research Assistant (PhD Candidate)** position within the Big Data Engineering (DAMS Lab) at Technische Universität Berlin. With over 15 years of professional experience in software engineering and system architecture—alongside a solid academic background in computer science—I am eager to contribute to your group's system-oriented research on scalable, efficient data-centric machine learning (ML) pipelines.

I hold a Bachelor's degree in Computer Science from the Virtual University of Pakistan and a Master's degree in Computer Science from Muhammad Ali Jinnah University, with a GPA of 3.27. My graduate studies, coupled with hands-on experience in complex system design and data processing, have laid a strong foundation for research in distributed systems and machine learning infrastructure.

Throughout my professional career, I have served in senior engineering roles at organizations such as INJAZAT and Contour Software, leading the development of full-stack applications and enterprise-scale ML solutions. My experience spans **Python**, **Java**, and **C/C++**, as well as tools like **TensorFlow**, **scikit-learn**, and **Keras**. I have actively worked on projects involving model training, optimization, and deployment, which align well with your lab's research focus—from compilation techniques and runtime optimizations to hardware-aware execution strategies.

I am particularly enthusiastic about your research group's efforts to build **language abstractions and system infrastructure for scalable ML workflows**. These are areas where I can offer both practical insight and research-driven inquiry. My recent projects have involved memory optimization, zero-downtime system migrations, and integrating ML-based automation into security-critical systems—experiences that resonate with the DAMS Lab's research mission.

I am proficient in English and currently pursuing improvement in my German skills, with full commitment to becoming classroom-ready in both languages. I also bring with me a strong sense

of teamwork, a passion for mentoring junior developers, and a curiosity-driven mindset essential for doctoral research. Additionally, I hold several industry-recognized certifications, including **Certified Scrum Master**, **Certified Scrum Product Owner**, and **Microsoft Azure Developer Associate**.

Enclosed are my **CV**, **academic transcripts**, and **degree certificates** for your review. I would be honored to further discuss how I can contribute to the DAMS Lab and pursue impactful research under your guidance.

Thank you for considering my application. I look forward to the opportunity of joining your team and contributing to cutting-edge research in Big Data Engineering at TU Berlin.

Sincerely,
Syed Zeeshan Ali