



Muhammad Bilal

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EDUCATION

Lahore University of Management Sciences

September 2023 - May 2025

Candidate for Masters (Computer Science) - **CGPA/Grade: 3.28**

Relevant Courses: Design and Analysis of Algorithms, Generative AI, Distributed Systems, Topics in Internet Research, Network Security

Lahore University of Management Sciences

July 2018 - June 2022

BS (Computer Science)

Relevant Courses: Machine Learning, Data Mining, Computer Vision

EXPERIENCE

LUMS

Teaching Assistant - CS100

September 2023 - December 2023

Managed and graded multiple course components including quizzes, labs, projects, exams.

Upwork

Software Engineer

April 2023 - August 2023

Project: AIID Pro - financial guidance and real-time credit monitoring software - <https://aiidpro.com/>

- Integrated RAG model into customer support chatbots for enhanced responses by retrieving relevant information from knowledge bases or FAQs.
- Utilizing next.js, optimized UI flows, authentication system, added AWS MFA, and executed multiple AWS deployments.

Project: Herdero - Device Protection Software for Childs - <https://herdero.com/signin>

- Utilizing react and node.js, completed the development of initial software iteration for device safety, featuring image-based tutorial integration.

Rolustech

Associate Software Engineer

June 2022 - March 2023

Project: LexCheck - AI-Powered Contract Review Software - <https://www.lexcheck.com/>

Maintained and added new features to different Lexcheck customer based modules, utilizing .NET and React.js.

PROJECTS

Apache Hive

- Contributed to an open-source project by fixing a flaky test.

Vector Databases Benchmarking

- Conducted a literature review on vector databases, and led a research project focused on benchmarking various vector databases, deriving valuable insights in the process.

ADDITIONAL SKILLS AND EXPERIENCE

Languages: JavaScript, C#, Python, C++, SQL, Go

Frameworks: Express, .NET, Next.js, TailwindCSS

Tools: Git, Github Actions

Libraries: React, pandas, NumPy, Matplotlib, scikit-learn, OpenCV, PyTorch, TensorFlow