

Muhammad Bilal

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EDUCATION

QUAID-I-AZAM UNIVERSITY

BS IN COMPUTER SCIENCE

Jul 2025 | Islamabad, PK

CGPA: 3.3 / 4.0

PUNJAB COLLEGE

FSc PRE-ENGINEERING

Aug 2021 | Faisalabad, PK

Marks: 963 / 1100

PAK JUNIOR HIGH SCHOOL

MARTICULATION

Jul 2019 | Faisalabad, PK

Marks: 1064 / 1100

LINKS

Github:// [devmbilal](#)

LinkedIn:// [dev-mbilal](#)

Instagram:// [dev.mbilal](#)

Facebook:// [dev.mbilal](#)

COURSEWORK

UNDERGRADUATE

Functional Programming

Object Oriented Programming

Data Structures

Computer Organization

Database Systems

Analysis and Design of Algorithms

Analysis and Design of Softwares

Operating System

Software Construction

Web Application Development

Theory of Automata

Artificial Intelligence

SKILLS

PROGRAMMING

Over 3000 lines:

C++ • Javascript • NodeJS

Flutter • Dart • ExpressJS

Over 1000 lines:

JAVA • HTML • CSS

Familiar:

REST APIs • Postman • MondoDb

MySQL • Swagger • Postman

EXPERIENCE

BYTEWISE FELLOWSHIP | DEVOPS FELLOW

Jun 2024 - Present | Remote

- Selected as a Bytewise Fellow in the BWT - DevOps Track from over 2,300 applicants, recognizing my potential and skills in DevOps.
- Engaging in intensive training and hands-on projects to deepen my expertise in DevOps practices and tools.

WORLD BANK GCF-744 (ROAD SAFETY) | BACKEND DEVELOPER

Sep 2023 - Present | Islamabad, PK

- Collaborate with interdisciplinary team members to understand project requirements and implement effective solutions.
- Contribute to the overall success of the project by providing technical expertise and support as needed.

DEXPLAT | FLUTTER INTERN

July 2023 - Aug 2023 | Remote

- Demonstrated teamwork by engaging in project discussions, conducting code reviews, and collaborating with team members to achieve goals.
- Collaborated remotely on GitHub, managing code structures, making pull requests, and resolving merge conflicts.
- Learned software architecture styles.

PROJECTS

ISLAMABAD PUBLIC ROUTE OPTIMIZATION AND VISUALIZATION

Apr 2024 - Present

- Collaborating with a team (GCF 744) to collect and visualize public transport stops in Islamabad using GIS tools.
- Analyzing mobility pattern data provided by Jazz to optimize public transportation routes for efficiency.
- Utilizing Python and data visualization libraries (e.g., Matplotlib, Folium) to create an interactive map of public routes.

ADMIN PANEL FOR SMART JOURNEY PLANNING

Sep 2023 - Mar 2024

- Led the development of the Admin Panel for the Smart Journey Application, a crucial component of the World Bank Funded Project (Optimum Use of Existing Resources: A Prototype Model on Road Safety - GCF-744).
- Implemented CRUD operations using Node.js and MongoDB for managing Stops, Sequences, Routes, Trips, and Calendar functionalities.
- Integrated Swagger for comprehensive documentation, facilitating seamless development and collaboration.

COURSE EVALUATION SYSTEM

Sep 2023 – Jan 2024

- Developed a JavaFX-based system for managing academic data, utilizing MySQL for robust database management.
- Implemented a three-layer architecture and Model-View-Controller (MVC) design pattern for scalability and maintainability.

CODE BRIDGE

Feb 2024 – Jun 2024

- Developed a platform to connect software developers with companies based on location and availability.
- Implemented search functionality using Elasticsearch, enabling companies to find developers efficiently.
- Designed and built the platform using React.js for the frontend and Node.js for the backend.

VOLUNTEERING

CAMPUS AMBASSADOR | DEVSINC

Mar 2023 - Present

- Acted as a liaison between Devsinc and the university, promoting Devsinc's programs and events to students.
- Organized workshops and information sessions to increase awareness and participation in Devsinc initiatives.
- Engaged with the student community to gather feedback and enhance the effectiveness of campus activities.

PUBLIC RELATION AND PARTNERSHIP LEAD | GOOGLE DEVELOPER STUDENT CLUB QAU

Oct 2023 - May 2024

- Led the public relations and partnership efforts for GDSC-QAU, fostering relationships with industry partners and sponsors.
- Coordinated with local businesses and organizations to secure sponsorships and partnerships for events and workshops.
- Managed social media campaigns and public communications to promote club activities and increase engagement.

AWARDS

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|------|-----------------------|--|
| 2019 | Top Scorer | Awarded a laptop for achieving the highest score in a test |
| 2023 | 3 rd Place | Tech Buzz competition at FAST University |

CERTIFICATIONS

- Version Control (Git and GitHub) - Meta
- Software Processes and Agile Practices - University of Alberta
- Introduction to Back-End Development - Meta
- Introduction to Databases for Back-End Development - Meta
- Server-side JavaScript using Node.js - NIIT
- Flutter Development - London App Brewery