

# Mohd Muhtasim Bashar

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## Education

### Qatar University

B.Sc in Computer Science (4<sup>th</sup> Year)

Doha, Qatar

Aug 2022 - June 2026

- GPA: 3.90/4.0 - Vice President's List and 4-time Dean's List Student.

- **Coursework:** Programming in Python, Object Oriented Programming (Java), Data Structures, Algorithms, Fundamentals of Database (Oracle SQL), Computer Architecture, Computer Security, Software Engineering, Data Communication and Networks, Web Development, Data Science, Operating System, Artificial Intelligence & Deep learning.

## Experience

### Front-End Developer Intern

S3 Lab

Doha, Qatar

Oct 2025 – Current

- Developed frontend UI screens using TypeScript, React, and Next.js for CAID, an AI-powered carbon emission analytics dashboard, improving data accessibility for sustainability teams.
- Integrated backend services such as Databases, AI models, with the frontend through REST APIs, enabling seamless real-time emission insights and reducing manual data handling for users.
- Containerized and deployed the web applications using Docker, enhancing system scalability and reliability for production environments.

### Grid Software Intern - Smart Infrastructure

Siemens WLL

Doha, Qatar

June 2025 - July 2025

- Trained and deployed LSTM-based AI models on smart meter data to forecast electricity consumption patterns, improving forecasting accuracy and supporting smarter grid planning decisions.
- Built an interactive Power BI dashboard using real-time data from Meter Data Management Systems (MDMS) to enhance Kahramaa's visibility in low-voltage networks, enabling energy-saving insights and identifying potential revenue opportunities.
- Contributed to a smart monitoring solution for Msheireb, configuring Modbus, BACnet, and MQTT protocols to connect Multi-Function Meters (MFMs) to IoT gateways, enabling real-time tracking of solar panel efficiency and meter data.
- Supported the technical sales team in preparing documentation for a Grid Software (PSS® SINCAL) proposal, aimed at winning the 2.8M QAR EWA Bahrain bid, helping align solution features with client energy planning needs.

### Research Intern

Summer Research Internship Program

Qatar University

May 2025 – June 2025

- Developed an AI-powered distraction detection system for motorcycle delivery drivers, with CNN-based head pose estimation and a real-time mobile alert application, which was recognized as the Best Research Project in the Information & Technology category.
- Achieved 95% accuracy in detecting rider distractions, validated on a custom data set comprising over 1,800 images of motorcyclists in various helmet and lighting conditions, by developing a CNN model using head pose estimation.
- Reduced potential distractions for drivers without sudden interruptions, as demonstrated through real-world user testing, by building a Flutter-based Android mobile app that runs passively in the background and delivers over-the-screen alerts.

## Projects

### UniTrack : A Full-stack Course Management Application

[github.com/unitrack](https://github.com/unitrack) ↗

- Built a Full-stack university course management application using Next.js, React, and Prisma, enabling efficient data storage and retrieval from an SQLite database, resulting in a highly responsive and scalable system.
- Automated database seeding with a custom seed.js script to populate the database with 500+ students, 50+ courses, and various instructors, enhancing the application's usability and ensuring data consistency.
- Created RESTful APIs and server actions in Next.js, incorporating JWT authentication & OAuth to securely manage user roles, ensuring a seamless and secure user experience.

### Genocide in Gaza: Telling the Story through Data Science

[github.com/dsproject](https://github.com/dsproject) ↗

- Analyzed over 18,000 individual fatality records and 566 days of daily casualty reports from the TechForPalestine dataset, uncovering key demographic and temporal trends in the ongoing humanitarian crisis.

- Utilized Python, NumPy, and matplotlib for data cleaning, statistical analysis, and visual storytelling to present evidence of disproportionate impacts on civilians.
- Demonstrated statistical significance of patterns in age distributions of victims, correlation between infrastructure damage and civilian deaths, and regional differences in casualty rates.

### **SENTRY – Multimodal Teleoperated Robot System for Emergency Response**

- Designed and implemented a VR-based Diminished Reality teleoperation prototype in Unity for search-and-rescue scenarios, helping remote operators explore 360° disaster scenes more safely using combined visual and haptic feedback.
- Connected and controlled a custom haptic belt and thermal camera gimbal from Unity using C# plus UDP & TCP networking, providing real-time directional vibration and heat-spot feedback so operators can better sense victim location and environment.
- Worked on the development of a YOLO victim-detection model with Unity Sentis and the DR pipeline, enabling fast, automatic highlighting of potential victims in cluttered scenes to help operators focus their attention more quickly.

### **CampConnect**

[github.com/campconnec](https://github.com/campconnec) ↗

- Developed a mobile app using Flutter to display nearby educational camps using geolocation, connecting displaced children to educational opportunities in crisis-affected areas such as Gaza, Syria, and Sudan.
- Used Firebase to manage app data on the Cloud Firestore and perform user authentication, ensuring real-time data synchronization across devices and secure access.
- Qualified for the final round of the Lifelines Hackathon 2025, standing out among 65 competing teams and showcasing its potential to drive real-world impact in crisis zones.

### **Real-estate market price predictor**

- Performed exploratory data analysis (EDA) using Python libraries such as Pandas, NumPy, and Matplotlib/Seaborn to identify key trends, correlations, and insights in the housing market dataset.
- Built and evaluated predictive ML models using machine learning libraries like Scikit-learn to forecast house prices based on property features, and achieving a prediction accuracy of 75%.

## **Technologies**

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**Programming Languages:** Python, SQL, JavaScript, TypeScript, Java, C, C#, Dart, Bash

**Frameworks and Technologies:** HTML, CSS, React, Next.js, Tailwind, Flutter, Prisma, Firebase, LangChain, Pinecone, ChromaDB, JavaFX

**Developer Tools:** Git, GitHub, Docker, Hugging Face, Postman, Unity Game Engine, Vercel, Linux (Kali, Ubuntu), Cisco Packet Tracer, Visual Paradigm

**Data & Productivity:** Power BI, LaTeX, MATLAB, Microsoft Office

## **Certifications**

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**Associate AI Engineer for Developers**  
*Datacamp*

*Jan 2026*

**Cisco Certified Network Associate 1: Introduction to Networks**  
*Cisco Network Academy*

*Dec 2024*

**Data Analysis with Python:** *IBM*  
*IBM & Coursera*

*May 2024*