



# Muzammal Hussain

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**Home:** Johr town, Lahore (Pakistan)

## ABOUT ME

### Hey, I'm Muzammal!

I'm a **Full-Stack Developer** with **2+ years** of experience building web applications. I work with **Node.js** and **NestJS** on the backend and **React.js** on the frontend. I've worked with **SQL (PostgreSQL)** and **NoSQL (MongoDB)** to design efficient databases and APIs.

I use **Git & GitHub** daily, write **unit and integration tests** with **Jest**. I've also implemented **data validation** using **Joi** to ensure clean and secure inputs. I enjoy solving problems, writing clean code, and learning new technologies to build better applications.

## WORK EXPERIENCE

### Associate Software Engineer

**Futurenostics** [ 12/2024 – Current ]

City: Islamabad | Country: Pakistan

#### Promethium

**Role:** Full Stack Developer

**Technologies:** NestJS, PostgreSQL, GraphQL

- Worked on **DAS Management** within a microservices architecture.
- Developed and maintained **GraphQL APIs** for seamless data querying and communication between services.
- Designed and implemented scalable backend solutions using **NestJS**.
- Utilized **PostgreSQL** for efficient data storage and retrieval.
- Wrote extensive **unit tests** and **integration tests** to ensure system reliability and maintain high code quality.
- Collaborated with a large team of developers to integrate DAS with other microservices across the platform.

### Backend Developer

**Argonteq** [ 08/2023 – 12/2024 ]

City: Lahore

#### Solutionz

**Role:** Backend Developer

**Technologies:** MongoDB, Express.js, React.js, Node.js

- Designed and implemented a comprehensive backend for an educational CRM system.
- Developed user registration and authentication modules for both admins and parents.
- Created a robust system for managing student profiles, enrollments, and progress tracking.
- Implemented features for parents to monitor their children's academic performance and receive notifications.

#### Willo Box

**Role:** Backend Developer

**Technologies:** Node.js, VectorDB, OpenAI APIs, LangChain

- Developed a platform where users can upload PDF files and ask context-based questions about the content.
- Implemented backend logic to process user queries and retrieve accurate answers using OpenAI APIs and LangChain.
- Utilized VectorDB to store vector embeddings of uploaded PDFs for efficient semantic search and query resolution.

#### Crypto Broker

**Role:** Backend Developer

**Technologies:** NestJS, MongoDB, ReactJS, React Native

- Developed a secure backend to support a crypto exchange platform where users can sell cryptocurrency to the admin, who then transfers the equivalent cash amount to their bank.
- Integrated MongoDB to store and manage user data effectively.
- Supported cross-platform compatibility with an admin panel built on ReactJS and iOS/Android apps developed with React Native.

#### **Katanalnu**

**Role:** Backend Developer

**Technologies:** MERN Stack (MongoDB, Express.js, Node.js, React.js)

- Developed a gaming platform similar to Epic or Steam, where users can play games, and admins can upload games.
- Implemented a social media feature designed for organizing tournaments.

#### **Obon**

**Role:** Backend Developer

**Technologies:** PERN Stack (PostgreSQL, Express.js, Node.js, React.js)

- Contributed to a restaurant tipping platform, allowing waitstaff and restaurants to register and receive tips from customers.
- Implemented a change request (CR) to display Google Reviews provided by customers to the restaurant within the app.

#### **Parry Script**

**Role:** Backend Developer

**Technologies:** PERN Stack (PostgreSQL, Express.js, Node.js, React.js)

- Created a platform for buying and selling medicines among pharmacies.
- Enabled users to register their pharmacies and manage transactions for purchasing and selling medications.

### **EDUCATION AND TRAINING**

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#### **BS Software Engineering**

**Virtual University of Pakistan** [ 2021 – Current ]

City: Lahore | Final grade: 3.66/4

#### **Bs (Hons) Physics**

**University of Education Township** [ 2017 – 2021 ]

City: Lahore | Final grade: 3.53/4

#### **F.Sc Pre Engineering**

**Govt. Degree College** [ 2014 – 2016 ]

City: Pattoki | Final grade: 82%

#### **Matric**

**Govt. High School** [ 2012 – 2014 ]

City: Pattoki | Final grade: 69%

### **DIGITAL SKILLS**

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#### **Backend**

Express.js / Nodejs / Nestjs / Typescript

#### **Frontend**

HTML5 / CSS3 / Bootstrap5 / Javascript / JQuery / React.js

## Databases

MongoDB / PostgreSQL

## Other Technical Skills

Git & GitHub / S3