

# Sabbir Hasan Munna

## Full-Stack Developer

**Present Address:** House #44, Road #14, Sonadanga R/A, Khulna

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## Career Objective:

Leverages strong expertise in full-stack development with a focus on Python, Django, and JavaScript to deliver scalable, user-centric applications. Combines a solid foundation in physics research and programming with an analytical approach to solving complex development challenges. Committed to continuous learning, particularly in advanced web technologies and machine learning, with a focus on contributing to innovative projects and driving technological advancements. Aims to thrive in dynamic environments that foster professional growth and encourage impactful technological contributions.

## Experience:

### Full Stack Developer

*Viriditas* (Startup Plant Based Interior Design Company), Since 2024

- Built and deployed the company website using Django and Next.js
- Currently involved in the technical development and maintenance of the startup's platform

### Freelance Writer

*Science View Publication, Khulna*, Since 2023

- Authored several physics handbooks.

### Teaching

*Coaching Center (OxBridge, Khulna) (2022-2023)*

## Education:

Degree	Institution	Year	GPA
<b>M.Sc. in Physics</b> <b>(Solid State Physics)</b>	Khulna University of Engineering and Technology	2024 - Present	<b>Ongoing</b>
<b>B.Sc. (Honors) in Physics</b>	National University of Bangladesh <i>Government Brajalal College, Khulna</i>	2021	<b>3.14</b>
<b>HSC in Science</b>	Jashore Board <i>Khulna Public College, Boyra, Khulna</i>	2016	<b>5.00</b>
<b>SSC in Science</b>	Jashore Board <i>Shiddhipasha PB High School, Abhoynagar, Jashore</i>	2014	<b>5.00</b>

## Skills:

### Core Skills:

**Programming Languages:** Python, JavaScript, TypeScript (Comfortable to any dynamic programming language)

**Frameworks:** Django, Django REST Framework, React, Next.js, Tailwind CSS

**Databases & Tools:** PostgreSQL, Redis, Docker, GitHub, CI/CD, WebSocket, API development

**Cloud Technologies:** Microsoft Azure, Vercel, Fly.io, Render, PythonAnywhere

### Additional Skills:

**Machine Learning Libraries:** NumPy, Matplotlib, Pandas

**Tech:** IoT, MQTT, VSCode, Linux, Prompt Engineering

## Special Training and Workshop:

### Apps and Website Development Course

*Organized by Khulna Administrative Convention Center construction project with Mangrove Institute of Science and Technology, Khulna.*

- Learned advanced Django topics, including best practices for scalability and deployment.
- Built a hostel management system and deployed it on **Fly.io**.
- Developed a mobile version of the same app using **Python Kivy**.

### AI for Bangla 2.0 Workshop

*Organized by Bangladesh Computer Council and ICT Division*

- Gained expertise in cutting-edge **ML/Deep Learning, NLP, Object and Action detection, and ML Ops**.
- Developed skills in making **production-grade ML applications**.

## Conference:

### International Conference on Physics – 2024

*Research Presenter - Presented research on "Impact of Sintering Temperature on Ni-Mg Nano Ferrites Prepared by Chemical Co-Precipitation Method"*

## Projects:

### Headless E-Commerce Project

- Developed a scalable headless e-commerce platform using **DRF, PostgreSQL, and Redis**, with custom API integration to manage inventory and customer data.
- Deployed in **Microsoft Azure**

### Sign Language Recognition

- Presented on "AI for Bangla 2.0" organized *Bangladesh Computer Council and ICT Division*
- Built a sign language recognition system using **TensorFlow, Mediapipe, and NumPy** to enable real-time gesture recognition and classification.
- TensorFlow Objects Detection and TensorFlow Action Detection

## School Management System

- Created a complete school management system with **Django**, **Bootstrap**, **jQuery**, and **Ajax** for efficient management of students, teachers, and course data.

## CO2 Forecasting

- Developed a machine learning model using **LSTM** in **Python** to predict CO2 levels, enabling better environmental monitoring.

## Hotel Management System (under development)

- Full-stack project using **DRF**, **Next.js**, **WebSocket**, **Uvicorn**, and **MQTT** to manage hotel bookings, room availability, and IoT-based room automation.

## Plant Based Decor Website (Viriditas)

- Built the company's main platform using **Django**, **Next.js**, and **Cloudinary** to manage plant products and decor services, enhancing user experience with a fast, responsive design.

## Personal Details:

**Father Name:** Md. Jahurul Haque Shaikh

**Mother Name:** Nasima Begum

**NID:** 780 427 7718

**Date of Birth:** 26 September, 1999

**Permanent Address:** Shiddhipasha, Abhoynagar, Jashore

## References:

**Dr. Md. Alamgir Hossain**

*Associate Professor, Khulna University of Engineering and Technology*

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## Socials:

GitHub: <https://github.com/sabbir2609>

LinkedIn: <https://www.linkedin.com/in/sabbir2609>