

# Muhammad Sabbir Hossain

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## Summary

UIU CSE Graduate with expertise in Python and Django for full-stack development, RESTful APIs, real-time systems (WebSockets, Redis, Celery, Docker), cloud deployment using AWS (EC2, S3, RDS), and machine learning. Competitive programmer with 2,500+ problems solved.

## Education

### B.Sc. in Computer Science & Engineering

United International University (UIU), Dhaka, Bangladesh

Jun 2021 – Dec 2025

Overall CGPA: 3.91 / 4.00

## Projects

### Nostalgia – Social Media Platform for Elderly Users

[GitHub](#)

*Django, Node.js, MongoDB, MySQL, HTML/CSS/JS, Microservices*

- Integrated NID-based identity verification with JWT-secured authentication and two-step validation.
- Built ML-driven recommendation pipelines and face-recognition-based person matching.
- Delivered accessibility features: walking buddy matching, medication reminders, and real-time chat.

### Real-Time Multi-Agent Chat System

[GitHub](#)

*Django Channels, WebSockets, Next.js, PostgreSQL, Redis, Docker*

- Developed a full-stack real-time multi-agent chat platform with automated agent assignment and queue-based session handling.
- Added JWT auth, persistent sessions, Dockerized deployment, and state management (TypeScript + Zustand).

### Caregivers – Platform for Compassionate Support

[GitHub](#)

*Django, JavaScript, Bootstrap, MySQL, NLP*

- Engineered a full-stack caregiving platform with task scheduling, approvals, blogs, calendar, and chatbot.
- Enhanced discoverability through advanced search, autocomplete, and role-based administrative controls.

## Skills

### Expert

C++, Python, Java, SQL, Django, Git

### Proficient

**Languages:** JavaScript, TypeScript, C#, PHP  
**Frameworks:** React, Node.js, Next.js, .NET Core, Flask, JavaFX  
**Databases:** PostgreSQL, MongoDB, Redis, Kafka  
**AI/ML:** PyTorch, YOLO, OpenCV, Hugging Face, RAG  
**DevOps/Tools:** Docker, AWS (EC2, RDS, S3), Linux, Agile

## Competitive Programming

**Codeforces** Solved: 1900+ | Max Rating: 1578 (Specialist)

handle: pagol

**CodeChef** Solved: 100+ | Max Rating: 1854 (4-Star)

handle: sabbir772

## Achievements

### UIU CSE Project Show

1<sup>st</sup> in Advanced OOP; 2<sup>nd</sup> in System Analysis & Design; 3<sup>rd</sup> in DBMS & SEL

2022–2024

### ICPC Asia Dhaka Regional

Participated 2× (2024, 2025);

2024–2025

### ML Olympiad 2024 (10<sup>th</sup>) | IUPC Ranks

BUBT 23<sup>rd</sup>, MU 42<sup>nd</sup>, KUET 50<sup>th</sup>;

2024–2025

### Top-20 National Individual Ranks

Multiple top-20 national individual ranks; 10+ onsite and 250+ online national & international competitions.

2023–2025

## Campus Activities

- Served as Trainer (50+), judge, problem-setter at UIUCPC; and Undergraduate Teaching Assistant.
- Founded UIU Scholars Squad — live CS sessions reaching 3,000+ students.