

MOHTASIM BILLAH

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EDUCATION

HOFSTRA UNIVERSITY – Hempstead, NY
DeMatteis School of Engineering and Applied Sciences

Graduation date: May 2025

Bachelor of Science in Computer Science

- **GPA:** 3.57 | **Honors:** Dean's List, Upsilon Pi Epsilon Candidate
- **Relevant Coursework:** Data Structures and Algorithms, Software Engineering, Object-Oriented Programming, Operating Systems, Discrete Structures for Computer Science, Analytic Geometry and Calculus, Programming Languages,
- **Clubs:** Hofstra C.O.D.E, Hofstra Men Soccer Club

PROFESSIONAL EXPERIENCE

TheCoderSchool – Bayside, NY

September 2023 – Present

Code Coach

- Mentor and teach students (aging from 9-18 years old) coding skills in languages like Python, and Java, developing their problem-solving abilities and computer science principles.
- Manage and lead group exercises to enhance students' presentation skills, preparing them for Coder Fairs and real-world coding challenges which promote project-based learning.
- Facilitate traditional curriculum-based coding classes where we break down big problems into small ones to guide students through advanced coding concepts.

Hofstra University – Hempstead, NY

October 2023 – December 2023

Computer Science Tutor

- Hold office hours to address students' questions, clarify concepts, and provide guidance on coursework and projects.
- Utilize technical expertise to troubleshoot and assist students with programming assignments, debugging code, and understanding complex algorithms and data structures.
- Analyzed codes (C++, Java, Python) written by students and helped them debug and provide feedback.

SKILLS

- **Languages:** JavaScript, TypeScript, Python, Java, C, C++, C#, F#, Rust
- **Frontend:** HTML, CSS, React, Recoil, Tailwind, Material UI
- **Backend:** NodeJS, Express.js, Django, Flask
- **Databases:** MySQL, PostgreSQL, MongoDB, Firebase, SQL Server Management Studio, Prisma
- **Others:** AWS, Git, GitHub, Bash, PowerShell, Visual Studio Code, Visual Studio, PyCharm, IntelliJ, NetBeans
- **Networking:** strace, wireshark, ifconfig, Static IP network configuration, System configuration (LDAP, NFS): open LDAP multi-user and multi-nodes system, Network File System, System service configuration and troubleshooting

PROJECTS

Stock Analyzer

- Designed a stock analyzer using Yahoo Finance API.
- Utilized various Data Structure and Algorithms, Java Data Collections, In-Memory Databases.
- Created various methods to insert, update stock records, to get the top 10 performing stocks using the Yahoo Finance API.

File Based Student Information Management System

- Designed a Student Registration Information Management System to register a student for their respective classes.
- Implemented in Java from scratch and no dependence on Relational Databases.
- Created various methods to set student ID, enroll in courses, view and pay tuition balance.