

Abu Hurayra Niloy

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Education

Shahjalal University of Science and Technology

March 2022 – Present

BSc in Software Engineering

- CGPA: 3.68/4.0 (up to the 6th semester).
- **Coursework:** OOP, Data Structures & Algorithms (DSA), SQL Databases, Computer Networking, Computer Architecture, Distributed Systems, Operating Systems, Artificial Intelligence, Machine Learning, etc.

Problem Solving

- Specialist on [Codeforces](#) with a peak rating of 1416.
- Solved 1000+ problems overall.
- Solved 600+ problems on [Codeforces](#).
- Solved 200+ problems on [VJudge](#).

Technologies

Programming Languages: C, C++, Python, Java, JavaScript, SQL.

Tools: Git, GitHub, Vercel.

Databases: MySQL, PostgreSQL, MongoDB.

Projects

PrepWise – AI-Based Interview Platform

[Live](#) — [GitHub](#)

- AI-powered interview preparation platform offering personalized coaching, real-time feedback, and tailored questions.
- **Tech Stack:** Next.js, PostgreSQL, Tailwind CSS, Gemini API.
- **What I built:** Frontend pages and UI components in Next.js, database schema for PostgreSQL.
- **Role:** Full-stack developer — implemented frontend components, created DB models, and handled deployment to Vercel.

Retinal Disease Detection Using YOLO-v11

[GitHub](#)

- YOLO-v11-based model for detecting retinal diseases from uploaded fundus images; includes preprocessing, augmentation, and evaluation pipeline.
- **Tech Stack:** Python, Streamlit, Ultralytics, NumPy, Pandas.
- **What I built:** Data preprocessing scripts, training loop with Ultralytics YOLO, and a lightweight Streamlit demo to upload images and view predictions.
- **Role:** ML engineer — model training and tuning; evaluation (precision and recall).

Agony Of Defeat

[GitHub](#)

- 2D platformer in which a ninja navigates obstacles to reach objectives; features collision detection, simple physics, and level progression.
- **Tech Stack:** C++, iGraphics.
- **What I built:** Core game loop, collision system, and level logic; implemented player controls.
- **Role:** Game developer — implemented game mechanics, debugged physics/collision edge cases, and assembled assets and level layouts.

Certificate

- **2023 ICPC Asia Dhaka Regional Site Online Preliminary Contest** — Certificate of participation as a member of Team_Seven, hosted by Shahjalal University of Science and Technology on 13 October 2023.
- **Python Programming and Basic Data Science** — Completed EDGE Project training by BCC & ICT Division, conducted by IICT, Shahjalal University of Science and Technology.
- **SQL (Intermediate) – HackerRank** — Earned certification demonstrating proficiency in intermediate-level SQL concepts and problem-solving.