

# Samin Yasir

## Research Enthusiast | Software Engineer

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### CAREER OBJECTIVE

As an accomplished computer science graduate with a background in competitive programming and machine learning-based research, I have more than **2 Years** of experience in software development. My passion for exploring the latest advancements in **Machine Learning, Artificial Intelligence, Software Engineering, Internet of Things, and Computer Architecture** drives me to leverage my creativity, technical expertise, and problem-solving skills to contribute to cutting-edge research in computer science and develop innovative solutions that address industry challenges.

### EDUCATION

#### Bachelor of Science in Computer Science and Engineering

Shahjalal University of Science and Technology (SUST)

CGPA: **3.75** (Academic Distinction)

CGPA of Last Four Semesters: **3.82**

February 2018 – January 2023

Sylhet, Bangladesh

### RESEARCH EXPERIENCE

#### Second Workshop on Bangla Language Processing Shared Task 1A: Hate Speech Detection

June 2025 – December 2025 | Mumbai, India

- **Rank: 18** out of **36** teams (Solo Participant) and **Accuracy: 71%** (Micro-F1 Score)
- Designed a system that effectively identifies **Bangla Hate Comments** using the model **BanglaBERT**.
- An effective data collection(**4K** Bangla comments) and augmentation methods have been used to improve the accuracy.

#### Bangla Sign Language Recognition using Deep Learning

- **Deep Learning Model** aims to bridge this gap by recognizing **Hand Gestures** in **Real-time** and translating them into text, facilitating smoother communication.
- Produced around 2,500 images. **2,000 Images** used for training and **500 Images** for testing
- Provides **89.98% Accuracy**

### STANDARDIZED TEST SCORE

#### IELTS - International English Language Testing System

Listening: **6.5**, Reading: **6**, Writing: **6**, Speaking: **7**, Overall: **6.5**

April 2025 | Dhaka, Bangladesh

### PROFESSIONAL EXPERIENCE

#### Software Engineer

KONA Software Lab. LTD

September 2023 – present

Dhaka, Bangladesh

- Working as a backend engineer using a **JAVA** framework **Spring Boot**
- Reduced Test suite **Execution Time** by **30%** through smartly managing Spring Boot beans
- Worked with RESTful APIs, Microservice Architecture, Payment Token Management System, and Cryptography

#### Software Engineer

Samsung R&D Institute, Bangladesh

March 2023 – September 2023

Dhaka, Bangladesh

- Worked on **Samsung Galaxy Watch 6 Notifications** using **Android Development** using **JAVA**
- Passed Samsung's elite **Global Professional Test** by efficiently solving a real-world problem under time constraints
- Boosted the team's Professional Test passing rate through **Targeted Mentoring** and preparation for competitive tests

### ACHIVEMENTS

#### Programming Contests

SEC Intra Campus Programming Contest, CSE Fest 2020 | **Rank:** 2nd Runner-up | **Team name:** SEC\_LabRats

ICPC Asia Dhaka Regional Preliminary Contest, 2021 | **Rank:** 96 out of 1460 (Placed top 7%) | **Team Name:** SEC\_Simplexity

Google Kick Start Round C 2022 | **Rank:** 797 out of 10,000 | **Country Rank:** 10 | **Handle:** Heisenberg\_71

Google Kick Start Round F 2022 | **Rank:** 613 out of 7000 | **Country Rank:** 21 | **Handle:** Heisenberg\_71

#### Honorable Programming Contest Participations

- ICPC DHAKA REGIONAL 2021

- MIST NCPC 2020

### Online Judge Profiles

- Over **3000** programming problems solved on different platforms
- Codeforces: Max Rating: **1556 | Specialist** [↗](#)
- CodeChef: Max Rating: **2056 | 5\* Coder** [↗](#)
- LightOJ: **Solved Problems: 200** [↗](#)

## PROJECTS

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### Resume Analyzer [↗](#)

May 2022

Python, Pdfminer, NLTK, Cosine Similarity

- Takes job requirement PDF and resume PDF as input and shows the match percentage of skills as output
- **Pdfminer** is used to extract the texts, and **NLTK** is used to extract the skills from the candidate's resume
- The matched percentage is generated using **Cosine Similarity**

### Enhanced Weather Analyzer [↗](#)

November 2023

Java, Spring-boot, Redis, Postgres, Docker

- Optimized complex SQL queries to process weather data from VisualCrossing API [↗](#), persisting information in **PostgreSQL** and generating detailed reports
- Enhanced query performance by implementing caching mechanisms using **Redis**
- Utilized **Docker** to containerize and manage project dependencies, including Redis and **PostgreSQL**

### AI Helper Bot [↗](#)

June 2024

Python, LangChain, OpenAI APIs, Streamlit

- A custom Q&A chatbot leveraging **OpenAI SDKs** and **LangChain**, enabling question-answering capabilities
- Integrated OpenAI's NLP with LangChain for efficient query handling and built a user interface using **Streamlit**

## TECHNICAL SKILLS

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### AI and ML

NLP, NLTK, Cosine Similarity, Deep Learning, LangChain, OpenAI APIs

### Programming Language

C, C++, Java(OOP), Python

### Database

MySQL, PostgreSQL, MariaDB, MongoDB, Redis

### Software Development

SpringBoot, Gradle, Kafka, JUnit, Git, Microservice, Test Driven Development(TDD), Jenkins, Docker

## LEADERSHIP

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### CP Training Club

November 2023 – March 2024

Founder and Trainer

- A Training Platform that introduces beginners to **Competitive Programming** and helps to grow problem-solving skills
- Provided 1:1 mentorship to improve weaknesses

### SEC Programming Club

August 2021 – January 2023

Contest Manager and Instructor

Sylhet, Bangladesh

- Helped junior problem solvers gain problem-solving skills
- Coordinated weekly and monthly programming contests

### Teaching Data Structures and Algorithms on Youtube

- Contains **60 video** lectures
- Gained **190+ Subscribers** (YouTube Channel Link: [youtube.com/@saminYasir007](https://youtube.com/@saminYasir007) [↗](#) )

### Writing blog on DSA and Software Engineering

- Writing blogs to share knowledge in the community (**Medium Blog** Profile: [medium.com/@saminYasir](https://medium.com/@saminYasir) [↗](#) )

## REFERENCE

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### Enamul Hassan

Assistant Professor, Department of Computer Science and Engineering, SUST

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