

# Shoaib Ahmed

✉ [ahmed.shoaib1729@gmail.com](mailto:ahmed.shoaib1729@gmail.com) ☎ +8801686454469 📄 [Shoaib Ahmed](#) 🖱 [edge555.github.io](https://edge555.github.io)

Google Scholar Profile – [Shoaib Ahmed](#)

## Summary

---

I'm passionate about using my skills in Computer Vision, NLP, and Generative AI to tackle complex cognitive challenges and create technologies that genuinely benefit people. With **2.5** years of strong software development experience, I'm eager to explore new frontiers in these fields and build solutions that make a real impact.

## Research & Publications

---

### Invariant Scattering Transform for Medical Imaging

<https://arxiv.org/abs/2307.04771>

- Applied wavelet technique for medical image classification
- Used scattering transform to build signal representation for image classification

## Areas of Research Interest

---

➤ Computer Vision      ➤ Generative AI      ➤ LLM      ➤ Virtual Reality

## Education

---

### Bachelor of Science in Computer Science and Engineering

November 2017 - April 2022

Ahsanullah University of Science and Technology • CGPA 3.081 out of 4.00

Dhaka, Bangladesh

- Achieved highest marks in Data Structure, Algorithms, Database, and Software Development Labs

## Undergraduate Thesis

---

### Reportbyte: An Advanced Business Analytics System

An advanced business analytics and assistant system that provides four kinds of services (Chatbot, Question-answering bot, Data visualization tool, and Predictive data analysis tool) built with machine learning and artificial intelligence tools.

**Advisor:** Mohammad Moinul Hoque, Associate Professor, Department of CSE, AUST

## Standardized Test Scores

---

### IELTS (International English Language Testing System)

Overall Score: Band **7** (Listening: 7.5, Reading: 7.5, Writing: 6, Speaking: 6.5)

### GRE (Graduate Record Examination)

Score: Verbal 150, Quant 163, Total **313**

## Experiences

---

**Software Engineer** (2 years 8 months)

*Cefalo* ([mail@cefalo.com](mailto:mail@cefalo.com))

**September 2022 - Present**

Dhaka, Bangladesh

Key Responsibilities:

- Integrating AI support into the project
- Actively fixed critical production bugs of overseas customers
- Implemented features for a large data migration system that can process 1 billion data
- Did R&D on some complex features that improved the client's business

**Software Engineer** (3 Months)

*Enosis Solutions Ltd.* ([info@enosisbd.com](mailto:info@enosisbd.com))

**June 2022 - August 2022**

Dhaka, Bangladesh

Key Responsibilities:

- Improved performance of Machinery Design Software with complex mathematical calculation
- Refactored some legacy code to much better maintainable code
- Made changes in an automated testing system that shortened the testing time by 15%

**Educator** (2 years 4 Months)

*Amar iSchool*

**January 2023 - Present**

Dhaka, Bangladesh

System Design Course: Zero to Intermediate

Course Curriculum

- Computer Architecture, System Performance Metrics, Scalability, Networking Basics
- Cache, Database, REST API, Message Queue

**Trainer of Competitive Programming** (2 years)

*Ahsanullah University of Science and Technology*

**January 2020 - January 2022**

Dhaka, Bangladesh

- Taught algorithms and data structures to 300+ students in my university's CSE department.
- Mentored the students to learn about different online judges and solve programming problems.

## Achievements and Participations

---

- Participated in more than 10 national programming contests, achieving best rank of 4th place
- Solved **4000+** Programming problems across all top-tier online judges
- Attended 300+ online contests among global participants
- Achieved **Expert** rank at Codeforcecs
- Got invited to take **Google Foobar Challenge**, cleared 4 out of 5 rounds

## Certifications

---

**Google Data Analytics Professional Certificate**

- Learnt to clean and organize data for analysis using spreadsheets, SQL, and R programming

- Visualize and present data findings in dashboards, presentations, and commonly used visualization platforms

## Involvements

---

### Microsoft Learn Student Ambassadors

December 2019 - March 2022

#### *Beta Ambassador*

- Conducted workshops on competitive programming
- Reached global audience for programming content

### AUST Programming and Informatics Club

December 2021 - January 2023

#### *Joint Secretary*

- Formed the club to increase programming activity
- Organized National Inter-University Programming Contest of 400 participants

## Skills

---

**Programming:** Python, C++, C#, SQL

**ML Libraries:** Sci-Kit Learn, Numpy, Pandas, Scipy

**DL Libraries:** TensorFlow, PyTorch, Keras

**IDE:** Jupyter, Google Colab, Visual Studio Code

## References

---

**Dr. Mohammad Shafiul Alam** ([shafiul.cse@aust.edu](mailto:shafiul.cse@aust.edu))

Professor

Department of Computer Science and Engineering

Ahsanullah University of Science and Technology, Bangladesh

**Md. Moinul Hoque** ([moinul@aust.edu](mailto:moinul@aust.edu))

Associate Professor

Department of Computer Science and Engineering (CSE)

Ahsanullah University of Science and Technology, Bangladesh

**Faisal Muhammad Shah** ([faisal.cse@aust.edu](mailto:faisal.cse@aust.edu))

Associate Professor

Department of Computer Science and Engineering

Ahsanullah University of Science and Technology, Bangladesh