

Shoaib Ahmed

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Google Scholar Profile – [Shoaib Ahmed](#)

Summary

I'm passionate about improving public health by using my computational skills to detect diseases early, prevent them, and make healthcare more efficient. At the same time, I'm excited about the potential of generative AI to solve cognitive challenges and create technologies that genuinely benefit people.

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

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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
- Thesis Topic: Reportbyte, An Advanced Business Analytics System

Experiences

Software Engineer

September 2022 - Present

Cefalo (mail@cefalo.com)

Dhaka, Bangladesh

Key Responsibilities:

- Actively fixed critical production bugs of overseas customers
- Implement features for large data migration system that can handle even 1 million data
- Did R&D on some complex features that improved the client's business
- Worked on adding AI support to the project

Software Engineer

June 2022 - August 2022

Enosis Solutions Ltd. (info@enosisbd.com)

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 shortens the testing time by 15%

Trainer of Competitive Programming

January 2020 - January 2022

Ahsanullah University of Science and Technology

Dhaka, Bangladesh

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

Educator

[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

Achievements and Participations

- Participated in more than 10 national programming contests achieving best rank of 4th place
- Attended 300+ online contests among global participants
- Achieved Expert rank at Codeforcecs
- Solved 3900+ Programming across all top-tier online judges
- 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 Bangladesh

December 2019 - March 2022

Beta Ambassador

- Conducted workshop 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: C, C++, Python, C#

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

DL Libraries: Keras

IDE: Jupyter, Google Colab, Netbeans