Shoaib Ahmed

✉ahmed.shoaib1729@gmail.com 📱+8801686454469 🔗Shoaib Ahmed 🌐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 **4** years of strong software development and AI engineering experience, I am 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, AWA 3.5, Total **313**

Experiences

AI Engineer (7 Months)   **June 2025 - Present**
Project: [Confidential]   Dhaka, Bangladesh

Built an **AI-powered assessment platform** targeting skill-based exams in a market with over **4 million** test-takers annually. Leveraged **LLMs** and **Computer Vision** to automate evaluation, ensure exam integrity, and deliver personalized feedback. Developed using **TypeScript**, **React**, and **PostgreSQL** for scalability and performance. Integrated ML models, Gemini APIs, ElevenLabs to power intelligent scoring and content generation.

Software Engineer (2 years 8 months)   **September 2022 - Present**
Cefalo (mail@cefalo.com)   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 points
• Did R&D on some complex features that improved the client's business

Software Engineer (3 Months)   **June 2022 - August 2022**
Enosis Solutions Ltd. (info@enosisbd.com)   Dhaka, Bangladesh

Key Responsibilities:
• Improved performance of Machinery Design Software with complex mathematical calculations
• 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)   **January 2023 - Present**
[*Amar iSchool*](Amar iSchool)   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)   **January 2020 - January 2022**
Ahsanullah University of Science and Technology   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 a 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**)**
Professor
Department of Computer Science and Engineering
Ahsanullah University of Science and Technology, Bangladesh

Md. Moinul Hoque (moinul@aust.edu)
Associate Professor
Department of Computer Science and Engineering (CSE)
Ahsanullah University of Science and Technology, Bangladesh