Shoaib Ahmed

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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 analytic 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

Experiences

Software Engineer (2 years 6 Months)   **September 2022 - Present**
Cefalo (mail@cefalo.com)   Dhaka, Bangladesh

Key Responsibilities:
• Integrating AI support to the project
• Actively fixed critical production bugs of overseas customers
• Implement 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) **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%

Educator (1 year 11 Months) **January 2023 - Present**

[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 almost **4000** Programming 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

Standardized Test Scores

IELTS (International English Language Testing System)

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

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 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: 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

Faisal Muhammad Shah (faisal.cse@aust.edu**)**

Associate 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