

MD REFAT KHAN PATHAN

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IELTS : 7



I have completed my MSc in Computer Science (By Research) from Sunway University with Distinction and currently continuing PhD here. Apart from that, I have a long background in competitive programming and software development. This year of 2025, I co-founded a startup company and launched our first product at <https://fluencialab.ai/>.

ACADEMIC INFORMATION

PhD in Computing
Sunway University, Malaysia
Started At: October 2025

M.Sc in Computer Science (By Research)
Sunway University, Malaysia, Lancaster University, UK (Dual Degree)
Passing Year: 2024
Result: Distinction (Above 80%)
Thesis Title: Object Tracing from Synthetic Liquid Spray through Instance Segmentation

B.Sc in Computer Science and Engineering
BGC Trust University Bangladesh
Passing Year: 2021
CGPA: 3.79 (out of 4)
Thesis Title: Sign Language Recognition from Complex Image Background Using Multi-Headed CNN.

VOLUNTARY TEACHING AND TRAINING EXPERIENCE

Subject: Competitive Programming
Duration: 6 months
Audience: Students from 1st and 2nd year at BGC Trust University Bangladesh
Topics: C, C++, Data Structure, Algorithms, Contest Strategies

Subject: Robotics
Duration: 1 year
Audience: Students from 1st, 2nd and 3rd year at BGC Trust University Bangladesh
Topics: Microcontroller based robotics projects, IoT and cloud-based projects.

RESEARCH EXPERIENCE

Number of Paper Published	: 19
Journal Paper	: 12 (Q1: 5, Q2: 5)
Conference Paper	: 7
Total Citations	: 450+
H-Index	: 10
I10-Index	: 10

PROFESSIONAL WORKS

- Software Engineer **07/2021- Present**
Encoders Tech (Founding member)
My current job responsibilities are to develop and maintain web applications and to lead a small team of developers. I am using PHP (CodeIgniter, Laravel), C# (ASP.NET), Nodejs, ReactJs, MySQL, MSSQL, and PostgreSQL as my working tools and language.
- Graduate Research Assistant **04/2022- 07/2024**
Sunway University
Working with a USA team to improve object detection on fluid spray using different instance segmentation methods.
- Jr Software Engineer **01/2021- 06/2021**
Global Tech Information Systems
My responsibilities were to develop and maintain web applications using PHP, CodeIgniter, ASP.NET, MySQL, MSSQL as my working tools and language.

COMPETITIVE PROGRAMMING EXPERIENCE

- International Collegiate Programming Contest **2018, 2019**
Preliminary round – Dhaka Regional
- National Collegiate Programming Contest **2018, 2020**
Organizer: ICT ministry of Bangladesh
- National High School Programming Contest **2016**
Organizer: ICT ministry of Bangladesh
- Inter University Programming Contest **2018**
Organizer: University of Science & Technology Chittagong
Organizer: Chittagong University of Engineering & Technology
Organizer: Outsbook **2017 - 2019**
2017
- Intra University Programming Contest **2017 - 2020**
Organizer: BGC Trust University Bangladesh
- Inter School and College Programming Contest **2016**
Organizer: Outsbook

AWARDS AND HONORS

- Tan Sri Sir Jeffrey Cheah Scholastic Award 2024
Institute: Sunway University
- Student Of The Batch in BASIS Institute of Technology & Management 2019
Course: Web Application Development with ASP.NET course
- Scored 2nd place in Intra University Robotics Exhibition 2018
Project: Railway Accident Prevention System
- Champion University in Inter School & College Programming Contest 2017
Organizer: Outsbook

EXTRA AND CO-CURRICULAR ACTIVITIES

- Participated in ICT Olympiad 2017
Organizer: Asian University for Women
- Attended National Undergraduate Math Olympiad 2017, 2018
Organizer: Bangladesh Mathematics Society
- Volunteer at BACS Regional Programming Camp – Chittagong 2017
Host: BGC Trust University Bangladesh

REFERENCES

Prof. Mayeen Uddin Khandaker

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Group, CCDCU
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Prof. Ts. Dr.-Ing. Sian Lun Lau

Department of Smart Computing and Cyber Resilience
School of Computing and Artificial Intelligence
Faculty of Engineering and Technology
Sunway University
Email: sianlunl@sunway.edu.my

I have some extra & co-curriculum certificates in this google drive url:

https://drive.google.com/file/d/1e1DV_WYmHFxS7yxWN2w3HCkvBNoMpJo6/view



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Refat Khan Pathan