

# MD REFAT KHAN PATHAN

Ridzuan Condominium, Selangor-47300, Malaysia

Phone : +601111798618

Email : [refatkhan93@gmail.com](mailto:refatkhan93@gmail.com)

LinkedIn : [linkedin.com/in/refat-khan](https://www.linkedin.com/in/refat-khan)

Orcid : [orcid.org/0000-0002-3773-0950](https://orcid.org/0000-0002-3773-0950)

Github : [github.com/refatkhan93](https://github.com/refatkhan93)

Visa : Student Pass in Malaysia



## OBJECTIVE

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I am an enthusiastic competitive programmer, software engineer and researcher. I have solved many programming problems in online judges and attended several programming contests in both national and international levels. I have working experience in developing web applications using **PHP (MVC, CodeIgniter, Laravel)**, **ASP.NET (MVC, Entity)** and **RDBMS (MySQL, MS SQL, PostgreSQL)**. Along with this, I have used frontend frameworks like **VUE JS** and **jQuery**. Besides, I am a researcher in the field of AI, ML, DL, Image processing and have published several top-quality journal papers.

## JOB EXPERIENCE

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### 2022/04 – Present Graduate Research Assistant

Sunway University

- ✓ Working on image processing with **Python** and **TensorFlow**.
- ✓ Working with multiple collaborators to share research data and results.
- ✓ Developed a system to identify given objects from a complex fluid image dataset.

### 2021/07 – Present Software Engineer

Encoders Tech

- ✓ Worked with **PHP, MySQL, and jQuery** to maintain and update a public social media website for an USA client.
- ✓ Developed new software using **PHP, CodeIgniter, MySQL, jQuery** to maintain CRM.
- ✓ Worked with **Laravel, Vue JS** and **PostgreSQL** to add a new feature to an existing gymnastics registration system for another USA client.
- ✓ Developed many in-house maintenances web application.
- ✓ Worked on **API** and **API security** for sensitive data transfer between multiple systems.
- ✓ Updated raw **PHP** software to **CodeIgniter** for better stability.

### 2021/01 – 2021/06 Jr. Software Engineer

Global Tech Information Systems

- ✓ Developed an **ASP.NET desktop application** to manage server auto backup after a given timeframe.
- ✓ Worked with existing **ASP.NET** projects with **MSSQL** server.

- ✓ Developed new **PHP** application using **CodeIgniter** and **MySQL**.
- ✓ Updated old **PHP** software to new version of **PHP**.
- ✓ Updated old Dot Net web form application to new ASP.NET MVC application using Entity and MS SQL.
- ✓ Worked with jQuery and other JS frontend framework and did raw designing with HTML.

## SKILLS

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- ✓ Complex problem solving, attended many online and offline programming contests in several inter-university, national and international level.
- ✓ Used programming language for problem solving: **C, C++, JAVA**.
- ✓ Professional working experience with **PHP, C#, Python**.
- ✓ Professional database experience with **MySQL, MS SQL, PostgreSQL**.
- ✓ Web development, management, **API integration, API security, Web security**.
- ✓ Framework used for **PHP – CodeIgniter, Laravel**.
- ✓ Framework used with **C# - ASP.NET MVC, Entity**.
- ✓ Framework used for frontend – **Vue JS, jQuery**.
- ✓ Experience with frontend markup like **HTML, CSS, Bootstrap, JavaScript**.
- ✓ Migrating web applications from one version to another.
- ✓ Working and managing a developer team to complete a **NodeJS** project.
- ✓ Working experience with **docker, AWS**.
- ✓ Working experience with **Linux server** for application deployment using **CI/CD** from **GitHub, GitLab** and **bitbucket**.
- ✓ Have experience exchanging data between **PHP** and **Python** to analyze pdf forms.
- ✓ Have research experience, mostly working with image processing using **Python** and **MATLAB**.

## ACADEMIC INFORMATION

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<b>2022–Running</b>	<b>M.Sc. in Computer Science (By Research)</b> Sunway University, Selangor, Malaysia Passing Year: April – 2024 (Expecting)
<b>2017–2020</b>	<b>B.Sc. in Computer Science and Engineering</b> BGC Trust University Bangladesh CGPA: 3.79 (Out of 4) Passing Year: 2020

## COMPETITIVE PROGRAMMING EXPERIENCE

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<b>2018, 2019</b>	<b>International Collegiate Programming Contest</b> Preliminary round – Dhaka Regional
<b>2018, 2020</b>	<b>National Collegiate Programming Contest</b> Organizer: ICT ministry of Bangladesh
<b>2016</b>	<b>National High School Programming Contest</b> Organizer: ICT ministry of Bangladesh

- 2017 – 2019 Inter University Programming Contest**  
Organizer: University of Science & Technology Chittagong  
Organizer: Chittagong University of Engineering & Technology  
Organizer: Outsbook
- 2017 – 2019 Intra University Programming Contest**  
Organizer: BGC Trust University Bangladesh
- 2016 Inter School and College Programming Contest**  
Organizer: Outsbook

## AWARDS AND HONORS

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

## EXTRA AND CO-CURRICULUM ACTIVITIES

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

## REFERENCES

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**Prof. Mayeen Uddin Khandaker**

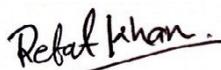
Centre for Applied Physics and Radiation Technologies  
Sunway University  
Phone : +60-1115402880 (Mobile)  
Email : mayeenk@sunway.edu.my

**Munmun Biswas**

Assistant Professor  
Dept. of Computer Science and Engineering  
BGC Trust University Bangladesh.  
Phone: +8801408805965  
Email: munmun@bgctub.ac.bd

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

[https://drive.google.com/file/d/1e1DV\\_WYmHFxS7yxWN2w3HCkvBNoMpJo6/view](https://drive.google.com/file/d/1e1DV_WYmHFxS7yxWN2w3HCkvBNoMpJo6/view)



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