

# MD. SHAHRIAR KHAN LIMON

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## SUMMARY OF QUALIFICATIONS

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- Proficient in Java, Python, JavaScript, and PHP, with expertise in Django and Laravel.
- Strong foundation in OOP, algorithms, and efficient problem-solving.
- Extensive knowledge of SDLC, and TDD methodologies.
- Completed undergraduate thesis on evaluating CNN models for Diabetic Retinopathy detection using image processing and machine learning.
- Engaged in diverse university projects encompassing Online Shopping Mart, Network Infrastructure, Scholarship Management, and Flight Management System development.

## EDUCATION

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### BRAC University

Bachelor of Science in Computer Science and Engineering

Mohakhali, Dhaka

August 2023

- CGPA: 3.63/4.00

### Notre Dame College

Higher Secondary School Certificate (Science)

Motijheel, Dhaka

July 2018

- GPA: 5.00/5.00

### Harimohan Govt. High School

Secondary School Certificate (Science)

Chapai Nawabganj

February 2016

- GPA: 5.00/5.00

## RESEARCH

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### Evaluating the Effectiveness of CNN-Based Models for Diabetic Retinopathy Detection

BRAC University

Undergraduate Thesis

August 2022 - August 2023

- Explored Diabetic Retinopathy (DR) and its impact on diabetic retinal vessels.
- Proposed CNN models (EfficientNetV2B3, EfficientNetV2S, Inception-ResnetV2, MobileNetV2, fusion) for automated DR detection.
- Evaluated model performance using fundus images and a KNN classifier.
- Used ExplainableAI (LIME) to enhance understanding of DR diagnosis models.

**Supervisor:** Muhammad Iqbal Hossain, PhD

## TECHNICAL SKILLS

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- Programming Language: Java, Python
- Object-oriented programming (OOP) & Algorithms
- Frameworks: Django, Laravel
- Web Development: HTML, CSS
- Software development lifecycle (SDLC) & Test-driven development (TDD)
- Databases: SQL Server Management, MySQL, Mainating Crystal Reports
- Version Control: Git & GitHub
- Machine Learning & Image Processing
- Problem Solving, Team Player
- Other Tools: MS Office, Google Sheets/Slides, Adobe Suite

## RELATED EXPERIENCE

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### Orange Solutions Ltd, United Group *Software Development Intern*

Madani Avenue, Dhaka  
November 2023 - February 2024

- Contributed to software development initiatives, focusing on SQL, Microsoft Database Management, and ERP Solutions, particularly focusing on the production module.
- Demonstrated proficiency in SQL procedures & integration of Crystal Reports into screens using the ZAB framework.
- Acquired hands-on experience with the company's proprietary framework, based with Tomcat.

## PROJECT EXPERIENCE

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### BRAC University

Mohakhali, Dhaka

#### *Online Shopping Mart Website*



- Developed a user-friendly online shopping platform as a software engineering course project.
- Implemented login, cart management, payment processing, and admin controls.
- Applied Django framework following the Model-View-Template pattern.
- Ensured code maintainability by organizing tests in separate files.

#### *BRACU Network Implementation*



- Established network infrastructure linking multiple BRAC University campuses and centers using pocket tracer for Computer Network course project
- Configured routers for efficient data routing, incorporating both static and dynamic routing protocols.
- Implemented email server for communication and set up web server and designed network topology diagram, provided router configuration commands, and utilized VLSM for IP address allocation.

#### *University Scholarship Management System*



- Collaborated on a database systems project to develop a scholarship management system.
- Enabled administrators to manage student grades and allocate scholarships based on performance.
- Utilized SQL for database operations, PHP for server-side scripting & designed intuitive user interface using CSS.

#### *Flight Management System*



- Collaboratively developed a Flight Management System for System Analysis and Design course.
- Conducted comprehensive requirement analysis for passengers, airline authorities, and airport admins.
- Implemented functional features like booking, tracking, and payment options.
- Addressed non-functional aspects including operational efficiency, performance, security, and regulatory compliance.

#### *Smart Security System using Arduino:*



- Designed power-efficient system with Arduino Uno, sensors, and servo motor.
- Developed smart security solution for remote control and detection.

## LEADERSHIP EXPERIENCE

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### Robotics Club of BRAC University *Secretary of HR*

Mohakhali, Dhaka  
August 2021 – June 2022

- Spearheaded HR responsibilities, overseeing club operations and event management.
- Organized two successful inter-university competitions, demonstrating strong organizational skills.

## HONORS & INVOLVEMENT

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- VC's List (3 semesters); Dean's List (2 semesters).
- Former Secretary Of HR at Robotics Club of BRAC University.
- Perfect Attendance Certificate from Notre Dame College.

## REFERENCE

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| <ul style="list-style-type: none"><li>• <b>Muhammad Iqbal Hossain, PhD</b><br/>Professor<br/>Department of Computer Science and Engineering<br/>Brac University, Dhaka 1212, Bangladesh<br/>+8801715065301<br/>iqbal.hossain@bracu.ac.bd</li></ul> | <ul style="list-style-type: none"><li>• <b>Md. Khalilur Rhaman, PhD</b><br/>Professor<br/>Department of Computer Science and Engineering<br/>Brac University, Dhaka 1212, Bangladesh<br/>khalilur@bracu.ac.bd</li></ul> |
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