

## Curriculum Vitae

# Fozle Rabbi Shafi

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## Education

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### **Doctor of Philosophy (PhD) in Computing**

Queen's University, Kingston, ON, Canada

September 2025–Present

### **Master of Science (MSc) in Computing**

Queen's University, Kingston, ON, Canada

September 2024–August 2025

CGPA: 4.24/4.30

### **Bachelor of Science (BSc) in Computer Science and Engineering**

Metropolitan University, Sylhet, Bangladesh

September 2015–August 2019

CGPA: 3.90/4.00

## Research Interests

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Generative AI, Large Language Models (LLMs), AI-driven Cybersecurity, Deep Learning, Agentic AI

## Publications

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### ***Personalized Mental Health Assistance with Large Language Models (2025)***

Conference: The 2025 IEEE COMPSAC Conference, Toronto

Link: <https://ieeexplore.ieee.org/abstract/document/11126663>

### ***LLM-Therapist: A RAG-Based Multimodal Behavioral Therapist as Healthcare Assistant (2024)***

Conference: GLOBECOM IEEE Global Communications Conference

Link: <https://ieeexplore.ieee.org/document/10901139>

### ***Rapidly developable low cost and power-efficient portable turbine-based emergency ventilator (2021)***

Conference: International Conference on Biomedical and Bioinformatics Engineering

Link: <https://dl.acm.org/doi/abs/10.1145/3502871.3502893>

### ***Cost-effective and power-efficient portable turbine-based emergency ventilator (2022)***

Journal: HardwareX

Link: <https://www.sciencedirect.com/science/article/pii/S2468067222000955>

## Teaching Experience

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### **Head Teaching Assistant, CISC 886 – Cloud Computing**

Queen's University, Kingston, ON

Jan 2026 – Apr 2026

- Assisted designing the labs with the instructor
- Conducted lab with coordination of the instructor
- Addressed student questions and coordinated with fellow teaching assistants

### **Teaching Assistant, CISC 498 – Information Technology Project**

Queen's University, Kingston, ON

Sep 2025 – Apr 2026

- Mentored student teams on project planning, system design, and implementation challenges
- Provided technical guidance and feedback throughout the project lifecycle
- Supported evaluation of project deliverables and presentations

### **Head Teaching Assistant, CISC 327 – Software Quality Assurance**

Queen's University, Kingston, ON

Sep 2025 – Dec 2025

- Designed assignment materials in collaboration with the course instructor
- Coordinated grading and instructional support among teaching assistants
- Responded to student inquiries and supported students with coursework challenges
- Graded exam papers

### **Head Teaching Assistant, CISC 324 – Operating Systems**

Queen's University, Kingston, ON

Jan 2025 – Apr 2025

- Assisted with the design of assignments
- Coordinated TA responsibilities and grading workflows
- Provided technical support to students on operating systems concepts and assignments

### **Head Teaching Assistant, CISC 327 – Software Quality Assurance**

Queen's University, Kingston, ON

Sep 2024 – Dec 2024

- Supported assignment design and assessment in collaboration with the course instructor
- Assisted with grading and exam proctoring
- Addressed student questions and coordinated with fellow teaching assistants

## Professional Experience

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### Software Engineer (Aug 2022-Aug 2024)

*Programming Hero, Level 4, 34, Awal Centre, Banani, Dhaka*

- Led development team for backend services
- Performed data analysis and visualization for business insights
- Contributed to scalable system design and implementation

### Software Developer (Remote, Jan 2021-Aug 2022 )

*Lighthouse Academy Canada, 100 Consilium Place, Suite 200, Toronto, ON, M1H3E3, Canada*

- Designed and developed full-stack applications
- Deployed and maintained systems on cloud infrastructure
- Collaborated with cross-functional teams remotely

### Full-Stack Engineer (Mar 2019-Dec 2021 )

*CRUX, Sylhet, Bangladesh*

- Developed mobile and web applications
- Built user interfaces and improved UX design
- Participated in frontend/backend integration and system optimization

## Technical Skills

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**Programming Languages:** Python, Javascript, Java, Kotlin, PHP, C, C++

**Embedded System:** Arduino, ESP8266, Sensor Integration

**Software Development:** Full-stack development for web, desktop, and mobile applications; scalable system design; Agile methodologies; version control (Git); software testing and SQA

**AI/ML:** Implementation of machine learning techniques; model training and evaluation; ML pipelines

**Database:** MySQL, PostgreSQL, SQLite, MongoDB, Firebase

**Cloud and DevOps:** DigitalOcean, AWS, Docker **UI/UX:** Figma

## Languages

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- English (Fluent Working Proficiency)
- Bangla (Native Language)

## IELTS Scores

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Listening	Speaking	Reading	Writing	Overall
7.5	7.5	6.5	6.5	<b>7.0</b>

## **Extra-curricular activities, awards and achievements**

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- Chairman's Scholarship, Metropolitan University, Sylhet  
Awarded for outstanding academic performance across multiple semesters (2016–2018)
- Mobile App Development Trainer, Google Techmakers Bangladesh  
Conducted training sessions on Android development for students and tech enthusiasts (2017)
- Information and Technology Officer, Queen's Bangladeshi Students Association (QBSA) (2025-26)
- Member of Sports Club, Metropolitan University (2017–2019)

## **References**

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References available upon request.