

# MD ANAYTUL ISLAM

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## PROFESSIONAL SUMMARY

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Versatile and detail-oriented Software Engineer with a Master's degree in Computer Science from Lakehead University and 5+ years of hands-on experience in developing robust, scalable, and user-centric software solutions. Skilled in full-stack development using technologies like .NET, Python, and SQL, with a proven track record in both industry projects and academic research.

Successfully contributed to large-scale enterprise systems, including the Electronic Construction Permitting System (ECPS), while also conducting research on R Markdown executability that led to scholarly publications. Combines strong software engineering principles with critical thinking, problem-solving, and a passion for innovation. Thrives in collaborative environments, adapts quickly to new challenges, and is committed to delivering clean, efficient, and maintainable code.

## EXPERIENCE

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**Walmart Inc., (CAN) Customer Service Manager | Thunder Bay, Canada** Feb 2025 -

- Led and supported a team of associates, ensuring efficient store operations, resolving customer concerns, and maintaining high service standards.
- Managed employee schedules, break allocations, and workflow coordination to optimize customer service during peak hours.
- Oversaw cash handling, self-checkout operations, and loss prevention strategies to enhance security and operational efficiency.

**Walmart Inc., (CAN) Self Checkout Attendant | Thunder Bay, Canada** Jun 2023 - Feb 2025

- Assisted customers with self-checkout transactions, troubleshooting technical issues, and ensuring smooth operations while maintaining a clean and organized checkout area.
- Consistently exceeded expectations by acquiring over 65 MasterCards, maintaining a weekly intervention average of 500, and earning 250 Walmart Stars each week.
- Took initiative in training new associates, managing peak-hour break schedules, and supporting the Customer Service Manager in store operations.

**Lakehead University, Graduate Teaching Assistant | Thunder Bay, Canada** Jan 2022 - Dec 2023

- Provided guidance as a teaching assistant for the following courses: Computer Programming 1, Computer Programming 2, Data Structures, Elementary Computing, and Advanced Programming Project.
- Conducted labs to explain resources on these topics.
- Assessed and evaluated assignments, exam papers, and lab submissions.

**Lakehead University, Graduate Research Assistant | Thunder Bay, Canada** Jan 2022 - Dec 2023

- Conducted a large-scale empirical study to understand the level of executability of R Markdown files.
- Developed multiple Python scripts to collect project and project-related features from GitHub.
- Developed scripts to automatically execute R Markdown files and evaluate their outputs.
- Built multiple classifiers to predict the executability of R Markdown files.

**Dohatec New Media, Software Engineer (Part time) | Remote (Dhaka, Bangladesh)** Mar 2022 - Sep 2023

- Worked on the development of the Electronic Construction Permitting System (ECPS), which automates the entire process of applying for a construction permit.
- Analyzed user requirements and developed features based on those requirements.
- Provided support to other development team members in creating new components using the .NET platform.

**Dohatec New Media, Software Engineer | Dhaka, Bangladesh** Nov 2020 - Feb 2022

- Worked on Electronic Construction Permitting System (ECPS) which automates the entire process of applying for a construction permit, from the user's initial application to the final authorization by all levels of government, through a single website that connects users to the relevant authorities. Here's the URL for more information: <https://ecps.gov.bd/>.
- Developed a component to create processes on-the-fly according to requirements using .NET platforms.
- Developed related APIs to access multiple resources.
- Developed views, stored procedures, and triggers on a SQL Server database to access data.
- Developed software for collecting field-level data and measurements from hardware during surveys, even when internet is not available. Data is synced to the website once it becomes available.

**Data Grid Limited, Software Engineer | Dhaka, Bangladesh**

Sep 2018 - Oct 2020

- Worked on an Enterprise Resource Planning (ERP) software for hotel management, specifically designed for (3-5) star hotels, to automate their entire management process. The software can be found at <https://datagridltd.com/>.
- Performed Requirement Analysis, Planning, Design, and Development according to the Software Development Life Cycle (SDLC).
- Created database tables, SQL procedures, and functions according to domain requirements.
- Built domain entities and business logic services.
- Developed a web API using ASP .NET Web API 2.
- Created a web application using ASP .NET Web Forms.
- Provided support to clients as and when needed.

**TechOptions, Internship Trainee | Dhaka, Bangladesh**

Jul 2017 - Jul 2017

- Its a three weeks internship. Learn about Hadoop and Big Data. Implemented a simple map reduce program.

**EDUCATION****Lakehead University, M.Sc. in Computer Science (Thesis Based) | Thunder Bay, Canada**

January 2024

CGPA: 90.4%

**Khulna University, B.Sc. in Computer Science & Engineering | Khulna, Bangladesh**

August 2018

CGPA: 3.52 / 4.0, position: 4th among 40 students

**SKILLS**

Languages	Python, C/C++, C#, Java, HTML 5, CSS 3, JavaScript, Bootstrap
Frameworks	.NET Platform, Spring Boot , React, AWS
Tools	Git, Vim, Visual Studio Code, Visual Studio, PyCharm, IntelliJ IDEA
Personal	Flexible, Adaptable, Quick Learner, Creative, Critical thinker, Humble, Honest, Hardworking, Punctual, Performance Oriented, Pragmatic Team Player with Good Communication & Leadership Skills

**Licenses & certifications**

Microsoft Certified: Azure Data Fundamentals	<ul style="list-style-type: none"><li>• Issued Oct 2023</li><li>• Credential ID 50127EC7BDF3AC99</li></ul>
ITEE FE Level-2	<ul style="list-style-type: none"><li>• IPA: Information-technology Promotion Agency, Japan</li><li>• Issued Apr 2019</li></ul>

**Publication****On the Executability of R Markdown Files**

2024

- This paper was accepted to be published in the 21st International Conference on Mining Software Repositories, 2024.

**Detecting Evolutionary Coupling Using Transitive Association Rules**

2018

- This paper was published " In IEEE 18th International Working Conference on Source Code Analysis and Manipulation (SCAM), 2018 which is held in Madrid, Spain and it is cited by 16 people since 2019.

**Achievements, Awards and Scholarships**

- Graduate Assistantships, Lakehead University
- KU Yearly Scholarship 2014, 2015, 2016, 2017
- Junior Scholarship 2008
- Primary Scholarship 2005