

Md. Rakib Trofder

Dhaka, Bangladesh

bsse1129@iit.du.ac.bd

[linkedin.com/in/rakib-iit](https://www.linkedin.com/in/rakib-iit)

Summary

I am a software engineer who possesses a deep passion for problem-solving and programming. My educational background includes a bachelor's in Software Engineering from the University of Dhaka. During my university years, I actively participated in both problem-solving and software development. I have completed 25+ academic software projects, solved 700+ competitive programming problems, and had 50+ online certifications in the computer science and software engineering field.

In summary, my academic and practical experience has provided me with a comprehensive skillset to solve complex problems and develop software solutions.

- Currently works as a Research Intern at **William & Mary**
- Worked as a Trainee Software Engineer at **Cefalo**
- Skilled in **Javascript**, **Java** & **Python** programming language
- Experienced in designing and implementing web application architectures using **React**, **Angular**, **Node**, **Express**, etc
- Strong communication and collaboration skills
- Proficient in developing **RESTful APIs**, including designing and implementing API endpoints, and authentication mechanisms
- Fundamental understanding of both **SQL** and **NoSQL** databases
- Basic knowledge of agile development methodologies, including continuous integration and automated deployment
- Competent in Git and collaborative coding projects
- Excellent team player with good problem-solving skills and self-motivation.

Experience

Associate Software Engineer

Streams Tech Ltd.

Jan 2024 - Present (1 month)



Research Intern

William & Mary

Aug 2023 - Dec 2023 (5 months)

- Working on Software re-engineering, maintenance, and evolution
- Making datasets of the software system information stored in json format
- Implementing large language model in software system reconstruction
- Measuring the reconstruction performance and find out limitations of llms in software reconstruction perspective

Trainee Software Engineer

Cefalo

Jan 2023 - Jun 2023 (6 months)

- Learning about HTTP, REST API Basics
- Completing a beginner project using react, nodejs, expressjs, tailwind css
- Working on a in house project of the company to develop features

Librarian (In Charge)

Khilkheth Pathagar

Oct 2020 - Dec 2021 (1 year 3 months)

- Documenting books, readers, and other information in digital format.
- Completing Documentation for Government Registration.
- Organizing multiple cultural activities at national events.

Education



University of Dhaka

BSSE, Software Engineering

2019 - Dec 2023

- 3 Course Project (two have 3 credits & one has 6 Credit)
- SPL1: Library Recommendation Tool
- SPL2: Blog Bee: a social media platform converting video to transcript text as a blog
- SPL3: Reconstructor Tool for Software System Reengineering



Notre Dame College

H.S.C., Science

2016 - 2018



Kurmitola High School & College

S.S.C., Science

2011 - 2016

Licenses & Certifications



Introduction to Artificial Intelligence (AI) - IBM

VUN2XANJMX8Z



Introduction to HTML5 - University of Michigan

8JYE4B96UP8N



Google Cloud Product Fundamentals - Google Cloud - Minnesota

EHZXDN7CGYXZ



Object-Oriented Programming with Java - Coursera

J9ADV5GJPMTF

 **Programming for Everybody (Getting Started with Python)** - University of Michigan
FDZX83TDLY63


 **Technical Support Fundamentals** - Google
F59TU9NZTD9W

 **What is Your Life Goal?** - Coursera
YFCZFAXRQRGL


 **Introduction to Bash Shell Scripting** - Coursera
MSWF4EUD4M3P


 **Python Data Structures** - University of Michigan
5BVKAN4NWRSY


 **Satellite Imagery Analysis in Python** - Coursera
C5N734H9PSFE


 **Python Data Structures** - Coursera
4D27SFW8FM65

 **Design Thinking for Innovation** - University of Virginia
9877E23KVR54

 **Initiating and Planning Projects** - University of California, Irvine - The Paul Merage
School of Business
DTZPGKLVNRAQ

 **Managing Project Risks and Changes** - University of California, Irvine - The Paul
Merage School of Business
4TL8268Z5NMK

 **AI For Everyone** - DeepLearning.AI
YNZE5RC8NVUQ

 **High-Impact Business Writing** - University of California, Irvine - The Paul Merage
School of Business
THRKNEG3YW3G



Using Python to Access Web Data - University of Michigan

SWBMRZRMNTJH



Getting Started with Google Classroom - Coursera

HKTH6T2BPKPE



Use Commands and Create a Remote Git Repository - Coursera

MMZEWF2Q6TVF



Introduction to TCP/IP - Yonsei University

Q85LBQ6J2EX7



Java Built in Data Structures - Coursera

NRTVHW3HLMFF



Using Google Forms for Student Success - Coursera

YCLYU8BRD68Z



Psychological First Aid - The Johns Hopkins University

GE7Q2B4DR93T



The Art of Negotiation - University of California, Irvine - The Paul Merage School of Business

NTY5BLCGAMT3



Foundations of Everyday Leadership - University of Illinois Urbana-Champaign

LX4LVVVM6XME



Create Class Rewards with Google Slides - Coursera

RNNDEMASGDV6



Introduction to Python - Coursera

F2NTEQU46GML



Introduction to Software Product Management - University of Alberta

PE9BF5SRA29W



Introduction to Git and GitHub - Google

9T3G54J4QPBD



Effective Problem-Solving and Decision-Making - University of California, Irvine -
The Paul Merage School of Business
SAL788YGVNPZ



Git for Developers Using Github - Coursera
WQTKBKCHQ9WE



Software Processes and Agile Practices - University of Alberta
8LDCTTADLTQC



Agile Software Development - University of Minnesota
KVXEG3STZZKT



Linux for Developers - The Linux Foundation
P4TJM3Q2KY9E



Java (Basic) Certificate - HackerRank
a8087b358c61



The Science of Well-Being - Yale University
QUQHBHUPRS2Z



The Bits and Bytes of Computer Networking - Google
ANFH2WVE3ZV4



Python (Basic) Certificate - HackerRank
db61f6bd3efe



Crash Course on Python - Google
5SNQUJX62R54



Programming Foundations with JavaScript, HTML and CSS - Duke University
DX5PGDYJLDR2



Operating Systems and You: Becoming a Power User - Google
T36LYK92WH6M



System Administration and IT Infrastructure Services - Google
Q3URKRN87B3L



Google IT Support Certificate - Coursera



iERA Dawah Training Course - iERA



New Muslim Mentorship - iERA



Use Canva to Design Digital Course Collateral - Coursera

YPW8HZXVD4W2



Troubleshooting and Debugging Techniques - Google

U3KXWB7TWEBX



Configuration Management and the Cloud - Google

NCCNJPXQS6YT



The Blockchain - University of California, Irvine - The Paul Merage School of Business

8JBDWLHPXCDX



Using of Zoom in Facilitating Online Class/ Meeting - MuktoPaath

MC-P364891R3031435O291W



Linkedin - 10 Minute School

MC-L364891M3031606J190D



YouTubing - 10 Minute School

MC-D364891A3033216X199G



Interview Skills - 10 Minute School

MC-X364891G3044305J149Z



Presentation Skills - 10 Minute School

MC-D364891F3038332S132R



Digital Security Essentials - a2i


MC-U364891L3036777J106P




Interview Skills - 10 Minute School


MC-X364891G3044305J149Z


 **Foundations of User Experience (UX) Design - Google**
V6QGWGEC8XHX


 **Microsoft PowerPoint Basics - 10 Minute School**
MC-C364891A561749R151R

 **Email Etiquette - 10 Minute School**
MC-C364891A561749R151R


 **Project Management - 10 Minute School**
MC-G364891M3085058Q192T


 **DevOps Fundamentals - Udemy**
UC-3a9db36b-aa16-4422-8888-8ffc83d514f

 **The Ultimate MySQL Crash Course 2021 - Udemy**
UC-fa81091e-5c49-4f0b-bcc3-a3cb5c7f7afa


 **Photography Basics - 10 Minute School**
MC-A364891L3099553M184D


 **Foundations: Data, Data, Everywhere - Google**
3KUMRVNMUCPG

 **Public Speaking Fundamentals - 10 Minute School**
MC-I364891N3100359I204D

 **COVID-19 Awareness and Prevention - BRAC**
MC-A364891O3107951J238U

 **Foundations of Project Management - Google**
DAH8BUVHV79T

 **Troubleshooting in Operating System - a2i**
MC-R364891H3122089I121O

 **Troubleshooting in File Processing and Sharing - a2i**
MC-A364891P3126743M119Q

 **Troubleshooting in Internet Connection - a2i**

MC-Q364891W3127506A118Z



Machine Learning for All - University of London
XD8QARZQD28E



Troubleshooting in Multimedia Projector - a2i
MC-N364891B3127509H117W



MS Excel Basics for Beginners - Bohubrihi
102733-163-588-4506



Google Workspace Essential Training - Bohubrihi
102733-163-611-6403



Introduction to Personal Finance - Bohubrihi
102733-163-618-9675



Welcome to the World of Digital Marketing - Bohubrihi
102733-163-635-4299



Bond vs Stock: The Crash Course - Bohubrihi
102733-163-639-1705



Career Planning - 10 Minute School
MC-Y364891U3140041G196A



Project Initiation: Starting a Successful Project - Google
XGHYF8HJ3U6W



Introduction to IoT - Simplilearn
3008427




Startup & Entrepreneurship - 10 Minute School
MC-W364891U3140124F182L



Learn React - Interactive Cares
c07e68489228d225



Introduction to Robotic Process Automation (RPA) - Simplilearn
3013553

 **Google Analytics - 10 Minute School**
MC-D364891S3147771F189B

 **Introduction to Golang - Basic Concepts - Coursera**
P4JG9GC9QQMZ


 **Ethical Hacking for Beginners - Simplilearn**
3036098

 **Introduction to Project Management with ClickUp - Coursera**
4MK7DQJJ379P


 **Getting Started in Google Analytics - Coursera**
Z9VBLN8T8UEU

 **A Complete Guide to Create necessary graphics without Adobe Photoshop and illustrator - Ghoori Learning**
61badc79ce5aa57909


 **Building Android Widgets from Scratch - Udemy**
UC-54e80ecb-29bb-45be-8db8-57f4acba4957

 **Docker Course for Beginners - Udemy**
UC-0f7fb435-9b17-4c1b-b8a8-322d5aceab0c

 **Coding Fundamentals - Grasshopper Communications**

 **React JS- Complete Guide for Frontend Web Development [2021] - Udemy**
UC-aefe120f-84af-40f4-b213-7ee363228659/


 **Introduction to Cyber Security - Simplilearn**
3213248

 **Business English - 10 Minute School**
MC-D364891H3246262I191W


 **Basics of Artificial Intelligence - 10 Minute School**
621634264e6ae

 **Ask Questions to Make Data-Driven Decisions - Google**

556S74NRNUAG

 **Artificial Intelligence Presentation Creation (2022 Edition)** - Udemy
UC-7bb277f7-ec43-4211-a4c8-7477ccdf2746

 **Python** - Kaggle

 **Project Management: Deliver on Time + Scrum Project Delivery** - Udemy
UC-9433c654-eec4-4329-a2ca-e8c67aed4096

Skills

Search Engine Technology • Prompt Engineering • Software Maintenance • GitHub • Generative AI • Literature Reviews • Research Skills • Communication • Library Management • Tailwind CSS

Honors & Awards

Best Reader Award 2017 - Khilkhet Pathagar
Aug 2017

Suvecca Pathok Award, Boi Pora Kormosuci 2016 - Biswa Sahittor Kendro
Nov 2017

1st Runner Up, Bangla Olympiad, ACC Language Fest-2016 - Adamjee
Cantonment College
Oct 2016

Champion, Science Division(Class 9-10), Creative Talent Hunt-2014, Dhaka Mohanagar - Ministry of Education
May 2014

Champion, Science Division(Class 9-10), Creative Talent Hunt-2014, Dhaka Mohanagar Area-1 - Ministry of Education
Apr 2014

Champion, Science Division(Class 9-10), Creative Talent Hunt-2015, Dhaka Mohanagar Area-1 - Ministry of Education
Mar 2015

1st Runner Up, Quiz, Independence Cup-2019 - IIT Software Engineers' Community
Apr 2019

1st Runner Up, Parliamentary Debate, 1st Intra-Club Debate Fest -2019 - IIT

Debating Club

Mar 2019

1st Runner Up, Event Ambassador at Tech Carnival 1.0 - CUET Computer Club

Sep 2021

2nd Place, Hackathon (DevOps Segment), BUET CSE FEST 2023

Jul 2023