

Mehadi Hassan

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EDUCATION

Memorial University of Newfoundland

MSc. in Computer Science

Sep 2022 - Aug 2024 (Expected)

St. John's, NL

BRAC University

BSc. in Computer Science and Engineering

Jan 2017 - Dec 2020

Dhaka, Bangladesh

SKILLS

Programming

Python, React, Django, Flask, Java, HTML5, Bootstrap, PostgreSQL, GraphQL, MySQL, LaTeX, NextJS

Software & Tools

Git, VS Code, Cypress, phpMyAdmin, Google CoLab, PyCharm, Anaconda Navigator, Android Studio, cPanel

Operating System

macOS, Linux, Windows

RESEARCH

Undergraduate Thesis

An Active-Learning based Training-Schedule for Biomedical Image Segmentation on Deep Neural Networks

ACHIEVEMENTS

- Received pass with distinction for excellent performance in the Co-Op program.
- Placed on VC's List for a semester and Dean's List for four semesters at BRACU.

EXTRACURRICULAR

- Participated in NASA Space Apps COVID-19 Challenge.
- Volunteered at (ICEPE), IEEE (Mar 2019).
- Member of BRAC University Computer Club (2018 - 2019)
- Boy Scouts, Bangladesh Scouts (2010 - 2013).

EXPERIENCE

CoLab Software | Full Stack Developer Intern (Co-op)

May 2023 - Dec 2023 | St. John's, NL

- Worked on front-end (React) and back-end (Python) to develop features.
- Wrote automated QA code using Cypress for front-end testing and implemented unit tests for back-end functionalities.
- Participated in code reviews and provided constructive feedback to team members for improvement.
- Utilized Agile methodologies to deliver projects on time and meet client requirements effectively.

CredoSense Limited | Software Engineer

Jun 2021 - Jul 2022 | Dhaka, Bangladesh

- Analyzed and designed different components of the software life cycle.
- Developed web, desktop and mobile software based on the requirements and customer needs.
- Kept features well documented and well tested.
- Helped troubleshoot different customer issues with the software or the product.

PROJECTS

CoLab Web Application

React, Python, Flask, Cypress

- Developed and shipped multiple user-facing features regularly.
- Worked on developing complex UI and back-end functionalities across diverse projects.
- Worked on the back-end API to communicate with external applications.
- Implemented internationalization throughout the application.

CredoSense Data Logger Dashboard

Python, REST API, Django, Bootstrap, JavaScript

- Built REST API to get sensor data.
- Features included dashboard customization, adding and removing sensors, and downloading data from the server.
- Clients are actively using this application to monitor their data loggers.

CredoWare

Python, PyQt

- Maintained and improved the previous code base.
- Added features like firmware update and integrated ML model to find calibration data.
- Reduced the hardware and software connection time significantly.
- Added support for Apple Silicon (ARM) Architectures for macOS.

COVID-19 Mobile App

Android, Java, XML

- Bangladesh and Worldwide COVID-19 statistics.
- COVID-19 Hospitalization and Emergency numbers in Bangladesh.
- Provided information on myths, hand wash procedures, general info, FAQ, etc.