

Mohammad Arafat Zaman

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EDUCATION

Bachelor of Science, Major in Computer Science

Memorial University of Newfoundland • NL, Canada • 2026

Cambridge A level (Accounting, Chemistry, Physics, Maths)

Sunnydale • Dhaka, Bangladesh • June 2021

Cambridge IGCSE (Accounting, English, Chemistry, Computer Science, Physics, Math)

Bangladesh International School English Section, Riyadh • Riyadh, Saudi Arabia • June 2019

EXPERIENCE

Software Developer Volunteer

Iccheghuri

April 2021 - December 2021

- Designed and developed a mobile application using React-Native, leveraging my knowledge of mobile development best practices and UX design principles to create an intuitive and engaging user experience.
 - Implemented a global state management system using Redux, allowing for efficient data sharing and updating across the application.
 - Utilized Firebase for the backend, implementing real-time database and cloud storage features to optimize the application's functionality and scalability.
 - Conducted rigorous testing and troubleshooting to identify and resolve issues in a timely and effective manner, ensuring a high-quality and reliable product.
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PROJECTS

Housing Prices Prediction Model

August 2023 - August 2023

Implemented a Random Forest Regressor model on Kaggle's Intro to Machine Learning housing prices dataset, achieving a 4.57% improvement in predictive accuracy compared to the course baseline performance.

LinearGPT

April 2023 - Present

Inspired by my MATH 2050 (Linear Algebra) class, this is a work in progress web application project that uses Django and DRF in the backend for authentication and React for the frontend. It uses various graphing libraries along with OpenAI API to help users visualize various Linear Algebra concepts.

Portfolio website

May 2020 - December 2022

This is a personal portfolio website that I designed and developed using Django, React, and Bootstrap. It includes custom features such as a blogging system, a portfolio section, and notable project pages. I also implemented a user authentication and authorization system using the Django framework with MySQL as the database management system. I have maintained it for over 2 years now, and it is my longest-maintained project.

LyricsFinder

March 2022 - September 2022

This is a fully-fledged web application that I developed, using Flask for the backend and React with Material UI for the frontend, to search for song lyrics using Spotify and Genius APIs to provide accurate and up-to-date song lyrics, showcasing my ability to work with third-party APIs.

InPeril

October 2020 - June 2021

This is a React-Native mobile application that I made with a friend, currently only available in AndroidOS build, that allows users to send alerts to emergency contacts in times of danger. It utilizes Firebase real-time database, integrated with the rnfirebase library, to ensure reliable and secure communication with the server.

SKILLS

Industry Knowledge: Coaching, Web Development, Project Management, Back-End Web Development, Front-End Development, Data Structures and Algorithms, Machine Learning

Tools & Technologies: REST APIs, ReactJS, Django, Django Rest Framework, React Native, HTML, SQL, NodeJS, MySQL, Python, CSS, Redux.js, Git, jQuery, Bootstrap, Firebase, ExpressJS, MongoDB, C++, numpy, scikit-learn, matplotlib, pandas

CERTIFICATIONS

[kaggle - Intro to Machine Learning](#) - August 04, 2023

[kaggle - Pandas](#) - August 02, 2023

[FreeCodeCamp - JavaScript Algorithm and Data Structures](#) - March 25, 2023

[FreeCodeCamp - Responsive Web Design](#) - March 24, 2023

AWARDS

1st place in Amazon Robotics Hackathon organized at Memorial University of Newfoundland - September 2023

3rd place in MUNCSS Kattis Coding Competition - October 2022

2nd place in MUNCC Winter Contest 1 - February 2023