

MOHAMMAD ABDUL AHAD CHOWDHURY

Graduate Student of Data Science • Full-Stack Web Developer • Machine Learning Expert

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EDUCATION

Western Sydney University

Master of Data Science

Feb 2022 – Present

Sydney, Australia

- Coursework: Social Media Intelligence, Natural Language Understanding, Predictive Analysis, Advanced Machine Learning

North South University

Bachelor of Science in Computer Science and Engineering

Jan 2014 – Aug 2018

Dhaka, Bangladesh

- Capstone project: Fruit Image Classification Using Convolutional Neural Networks
- Coursework: [Repositories on GitHub](#)

WORK EXPERIENCE

Apollo International

Software Engineer

20 Apr 2021 – 25 Jul 2022

Sydney, Australia

Part-time employment developing the in-house CRM solution.

Stack: ASP.NET Core, EF Core, xUnit, PostgreSQL, Redis, React.js, Next.js, Material UI, Jest, RTL, Playwright, SSH, Nginx, Certbot.

Responsibilities:

- Development of the client-side and the server-side software.
- Unit testing of the back-end project.
- Unit and end-to-end testing of the front-end project.
- Integration and deployment of the solution on a VPS instance.

Dynamic Solution Innovators Ltd.

Junior Software Engineer

1 Feb 2019 – 31 Jan 2020

Dhaka, Bangladesh

Full-time employment developing enterprise web applications.

Projects: The [OpenCRVS project](#) ([technical details](#), [commits](#)) and the full-stack solution of [Olwel](#), an IT-based healthcare startup ([technical details](#)).

Stack: Node.js, Hapi.js, MongoDB, RethinkDB, GraphQL, Docker Swarm, React.js, Electron.js, Redux.js, Material UI, Jest, Cypress.

Responsibilities:

- Addition of features and bug-fixes to the client-side software.
- Addition features and optimizations to the server-side software.
- Optimization of database queries and database migration scripts.
- Composition of unit and end-to-end tests.

North South University

Research Assistant

1 Nov 2016 – 30 Apr 2018

Dhaka, Bangladesh

Part-time employment under the Department of Environmental Science & Management ([website](#)) ([relevant news article](#)).

Projects: NODES, an airline management system that uses linear optimization to maximize utilization of resources.

Stack: .NET Framework, Windows Forms.

Responsibility: Development of the front-end software of NODES.

TECHNICAL SKILLS

C#

JavaScript

TypeScript

Python

SQL

R

C

.NET Core

ASP.NET Core

Entity Framework Core

Node.js

Express.js

React.js

Redux.js

Next.js

Solid.js

Astro

Blazor

PWA

Electron.js

Windows Forms

WPF

UWP

Jupyter Notebook

NumPy

SciPy

Pandas

Matplotlib

NLTK

Keras

Scikit-Learn

Tensorflow

ML.NET

PostgreSQL

MongoDB

Redis

Docker

CI/CD

PaaS

IaaS

PERSONAL PROJECTS

KonSchool

- Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh.
- Tech-stack: ASP.NET Core (Web API, Razor pages), MongoDB.
- Status: Completed, with unit and e2e tests (xUnit and Moq) at 95% coverage.
 - Another version is in development, with separate web APIs and a front-end developed with Blazor.
- Categories: Web application.
- Links: [GitHub repository](#), Hosted on [Azure](#) and [Heroku](#), [Docker image](#)

Connery

- Classifier of images of fruits that uses convolutional neural networks.
- Tech-stack: ML.NET, ASP.NET Core.
- Status: Completed, fixing bugs now.
- Categories: Web application, Machine learning, Deep learning
- Links: [GitHub repository](#)

Winston

- Implementation of neural networks from scratch.
- Tech-stack: C, CMake.
- Status: In development (early stage)
- Categories: Machine learning, Deep learning
- Links: [GitHub repository](#)