

# 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: Natural Language Understanding, Social Media Intelligence, Visualisation

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 – Present

Sydney, Australia

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

Responsibilities:

- Development of the client-side software (React.js, Next.js, Redux.js, Material UI).
- Development of the server-side software (ASP.NET Core, Entity Framework Core, PostgreSQL, Redis).
- Unit testing of the back-end project (xUnit).
- Unit and end-to-end testing of the front-end project (Jest, React Testing Library, Playwright).
- Integration and deployment of the complete solution on an IaaS/VPS instance (SSH, Nginx, Certbot).

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](#)).

Responsibilities:

- Addition of new components, features, and bug-fixes to the client-side software (React.js, Electron.js, Redux.js, Material-UI).
- Addition features and optimizations to the server-side software (Node.js, Hapi.js).
- Optimization of database queries and database migration scripts (RethinkDB).
- Composition of unit and end-to-end tests (Jest, Cypress).

## TECHNICAL SKILLS

C# JavaScript TypeScript

Python C R .NET Core

ASP.NET Core Entity Framework Core

Node.js Express.js React.js

Next.js Redux.js Blazor PWA

Electron.js Windows Forms WPF

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, MongoDB.
- Categories: Web application, Recommendation system.
- Links: [GitHub repository](#), Hosted on [Azure](#) and [Heroku](#), [Docker image](#)

**Connery**

- Fruit-image-classifier using convolutional neural networks.
- Tech-stack: ML.NET, ASP.NET Core.
- Categories: Web application, Machine learning, Deep learning
- Links: [GitHub repository](#), [API Swagger](#)

**Winston**

- Implementation of neural networks from scratch. *WIP*.
- Tech-stack: C, CMake.
- Categories: Machine learning, Deep learning
- Links: [GitHub repository](#)

**addlh**

- A CLI tool that adds a license header on top of each source file of a directory.
- Tech-stack: .NET Core.
- Categories: CLI tool, Developer tool
- Links: [Nuget package](#), [GitHub repository](#)