

Mohammad Abdul Ahad Chowdhury

Bangladeshi graduate student of data science, with experience in full-stack web development. Currently looking for part-time employment or an internship in the IT industry.

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www.maacpiash.com • [LinkedIn](#) • [GitHub](#) • [NPM](#) • [NuGet](#)

Education

Master of Data Science

Macquarie University

New South Wales, Australia

February 2020 – December 2021 (Tentative)

Coursework: [Data Science](#) • [Big Data](#)

Bachelor of Science in Computer

Science and Engineering

North South University

Dhaka, Bangladesh

January 2014 – August 2018

Capstone project: Fruit Image Classification Using Convolutional Neural Networks

Coursework: [Artificial Intelligence](#) • [Theory of Fuzzy Systems](#) • [Computer Graphics](#) • [Software Engineering](#) • [Microprocessor Interfacing & Embedded System](#)

Technical Skills

- ❑ **Programming languages**
(in order of skill level)
C#, JavaScript (ES6), TypeScript, Python, C, Java, C++
- ❑ **Web development**
 - ASP.NET Core, Entity Framework Core, Blazor, SignalR, IdentityServer
 - Node.js, React.js, Angular, Webpack, Express.js, Hapi.js
 - Socket.IO, ReST, GraphQL, Microservices architecture
- ❑ **Desktop app development**
Windows Forms, WPF, UWP, Electron.js, JavaFX
- ❑ **Data science**
Jupyter Notebook, NumPy, Pandas, NLTK, Scikit-Learn, ML.NET
- ❑ **Database systems**
MongoDB, MySQL, MS SQL Server, PostgreSQL, SQLite, RethinkDB
- ❑ **DevOps**
Docker, Heroku, Azure App Service, MongoDB Atlas, Travis CI, AppVeyor
- ❑ **Development methodology**
Agile (scrum)

Work Experience

Junior Software Engineer at Dynamic Solution Innovators Ltd.

01 February 2019 – 31 January 2020 • Dhaka, Bangladesh

Full-time employment working on Node.js-based web applications: the [OpenCRVS](#) project, and the enterprise solution of [Olwel](#).

Responsibilities:

- ✓ Added new components, features, and bug-fixes to client-side software (React.js, Electron.js, Material-UI).
- ✓ Added features and optimizations to server-side software (Hapi.js).
- ✓ Optimized database queries (RethinkDB).
- ✓ Wrote unit, integration, and e2e tests (Jest, Mocha, Enzyme, Cypress). Refactored code to increase test coverage (Codecov).

[View my commits for OpenCRVS on GitHub [here](#)]

Research Assistant at North South University

01 November 2016 – 31 March 2018 • Dhaka, Bangladesh

Part-time employment under the university's Department of Environmental Science and Management [[relevant news article](#)]

Responsibility: Developed the desktop application (.NET, Windows Forms) for NODES, an airline management software that uses linear optimization on constraints to maximize usage of airline resources.

Personal Projects

- ❑ **Connery** – ML.NET, ASP.NET Core [[GitHub](#)/[API \(Swagger\)](#)]
Fruit-image-classifier that uses convolutional neural network.
- ❑ **Kon School?** – ASP.NET Core, MongoDB [[GitHub](#)/[Azure](#)/[Heroku](#)/[Docker](#)]
Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh.
- ❑ **Winston** – Cmake [[GitHub](#)]
Implementation of neural network from scratch, in C. *WIP*.
- ❑ **Vardict** – Node.js, Typescript [[GitHub](#)/[NPM](#)]
A basic Node.js package for parsing labeled CLI arguments.
- ❑ **MqFind** – Node.js, TypeScript, Hapi.js, React.js, Webpack, Lerna, Docker Compose [[GitHub](#)/[API](#)]
A full-stack web app that shows listings of accommodation near Macquarie University campuses.

Publication

- ❖ Selection of Most Suitable Secondary School Alternative by Multi-Criteria Fuzzy Analytic Hierarchy Process.
[Published by [Springer/AISC](#) in 2018. Also presented at [MISSI 2018](#)]
- ❖ Fruit Image Classification Using Convolutional Neural Networks.
[Published by [IGI Global/IJSI](#) in 2019]
- ❖ Fusion of BWM and AHP MCDM Methods to Choose the Most Suitable Secondary School for an Individual in the Context of Bangladesh. [Published by [World Scientific/VJCS](#) in 2019]