

# Mohammad Abdul Ahad Chowdhury

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## PROFILE SUMMARY

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

## EDUCATION

- **Macquarie University** New South Wales, Australia  
*Master of Data Science*  
Expected to graduate in December 2021.  
Coursework: Data Science, Big Data *February 2020 – Present*
- **North South University** Dhaka, Bangladesh  
*Bachelor of Science in Computer Science and Engineering*  
Capstone project: Fruit Image Classification Using Convolutional Neural Networks *January 2014 – August 2018*  
Coursework: Artificial Intelligence, Theory of Fuzzy Systems, Software Engineering, Microprocessor Interfacing & Embedded System, Computer Graphics

## WORK EXPERIENCE

- **Dynamic Solution Innovators Ltd.** Dhaka, Bangladesh  
*Junior Software Engineer* *February 2019 – January 2020*  
Full-time employment working on Node.js-based full-stack (React.js and Hapi.js) web applications: the OpenCRVS project, and the enterprise solution of Olwel, a healthcare startup. Agile methodology (scrum) was followed.  
**Responsibilities:** Added new features and components; fixed bugs; optimized API calls and database queries (RethinkDB); wrote database migration scripts (RethinkDB); wrote unit tests (Jest, Mocha).  
[View my commits for OpenCRVS on GitHub [here](#)]
- **North South University** Dhaka, Bangladesh  
*Research Assistant* *November 2016 – April 2018*  
Part-time employment working on a research project. ([relevant news article](#))  
**Responsibility:** Developed the front-end software (.NET, Windows Forms) of NODES, an airline management system that uses linear optimization to maximize usage of airline resources.

## TECHNICAL SKILLS

- **Programming languages:** C#, JavaScript (ES6), TypeScript, Python, C, Java, C++
- **Web development:** ASP.NET Core, Entity Framework Core, Blazor, Node.js, Express.js, Hapi.js, Angular, React.js, Webpack, ReST, GraphQL, Socket.IO, Microservices architecture
- **Machine learning & data science:** Jupyter Notebook, Pandas, NLTK, Scikit-Learn, ML.NET
- **Desktop app development:** Windows Forms, WPF, UWP, Electron.js, JavaFX
- **Database systems:** MongoDB, MySQL, Microsoft SQL Server, PostgreSQL, SQLite, RethinkDB
- **DevOps:** Docker, Heroku, Azure App Service, MongoDB Atlas, Travis CI, AppVeyor

## PUBLICATION

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

## PERSONAL PROJECTS

- **KonSchool:** Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh. – ASP.NET Core, MongoDB [[GitHub](#) • [Azure](#) • [Heroku](#) • [Docker](#)]
- **Connery:** Fruit-image-classifier using convolutional neural networks. – ML.NET, ASP.NET Core [[GitHub](#) • [API](#) (Swagger)]
- **MqFind:** A web app for querying, filtering, and listings of accommodation near Macquarie University campuses. – Node.js, TypeScript, React.js, Hapi.js [[GitHub](#) • [API](#)]
- **Vardict:** A basic Node.js package for parsing labeled CLI arguments. – Node.js, TypeScript [[GitHub](#) • [NPM](#)]
- **Winston:** Implementation of neural networks in C. *WIP* – Cmake [[GitHub](#)]