

# Mohammad Abdul Ahad Chowdhury

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## PROFILE SUMMARY

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Bangladeshi graduate student of data science, with one year of full-time professional experience in full-stack web development. Polyglot programmer, problem solver, team player. Skilled in developing cloud-native web apps using ASP.NET Core and MERN-stack. Proficient in building solutions with machine learning and deep learning technologies. Currently looking for part-time employment or an internship.

## EDUCATION

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- **Macquarie University** Sydney, New South Wales, Australia  
*Master of Data Science*  
Coursework: Data Science, Big Data  
*February 2020 – May 2022*
- **North South University** Dhaka, Bangladesh  
*Bachelor of Science in Computer Science and Engineering*  
Capstone project: Fruit Image Classification Using Convolutional Neural Networks  
Coursework: Artificial Intelligence, Theory of Fuzzy Systems, Software Engineering, Microprocessor Interfacing & Embedded System, Computer Graphics  
*January 2014 – August 2018*

## WORK EXPERIENCE

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- **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 features and components; fixed bugs; optimized API calls and database queries; wrote database migration scripts; wrote unit tests. [View my commits for OpenCRVS on GitHub [here](#)]
- **North South University** Dhaka, Bangladesh  
*Research Assistant*  
*November 2016 – April 2018*  
Part-time employment under the Department of Environmental Science and Management. ([relevant news article](#))  
**Responsibility:** Developed the front-end software (Windows Forms) of NODES, an airline management system.

## TECHNICAL SKILLS

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- **Programming languages:** C#, JavaScript (ES6), TypeScript, Python, C, Java, C++, R
- **Web development:** ASP.NET Core, Entity Framework Core, SignalR, Blazor, Node.js, Express.js, Hapi.js, React.js, Vue.js, Angular (2+), Webpack, PWA, ReST, GraphQL, Socket.IO, Microservices architecture
- **Machine learning & data science:** Jupyter Notebook, NumPy, 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 DevOps, Azure App Service, MongoDB Atlas, Travis CI, AppVeyor

## PERSONAL PROJECTS

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- **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 listings of accommodation near Macquarie University campuses. – Node.js, TypeScript, React.js, Fluent UI, Hapi.js [[GitHub](#) • [API](#)]
- **AddLicenseHeader:** A CLI tool that adds a license header on top of source files. – .NET Core [[GitHub](#) • [NuGet package](#)]
- **Vardict:** A basic Node.js package for parsing labeled CLI arguments. – Node.js, TypeScript [[GitHub](#) • [NPM package](#)]

## PUBLICATION

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- **Conference paper:** Selection of Most Suitable Secondary School Alternative by Multi-Criteria Fuzzy Analytic Hierarchy Process. [Presented at [MISSI 2018](#), published by [Springer/AISC](#)]
- **Journal paper:** Fruit Image Classification Using Convolutional Neural Networks. [published by IGI Global/IJIS in 2019]
- **Journal paper:** 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]