

# Mohammad Abdul Ahad Chowdhury

Unit 11, 53 Constitution Road, Meadowbank, NSW 2114

www.maacpiash.com

LinkedIn: <https://linkedin.com/in/maacpiash>

Mobile: +61482605155

Email: [ahad@maacpiash.com](mailto:ahad@maacpiash.com)

Skype: maacpiash

GitHub: <https://github.com/maacpiash>

## PROFILE SUMMARY

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Bangladeshi graduate student of data science, with one year of professional experience in full-stack web development. Skilled in developing cloud-native web apps using ASP.NET Core and MERN-stack. Adept at developing cross-platform desktop and mobile apps. Proficient at solving problems with machine learning and deep learning.

## EDUCATION

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- 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* *January 2014 – August 2018*  
Capstone project: Fruit Image Classification Using Convolutional Neural Networks  
Coursework: Artificial Intelligence, Theory of Fuzzy Systems, Software Engineering, Microprocessor Interfacing & Embedded System, Computer Graphics

## WORK EXPERIENCE

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- SAM.Coach** New South Wales, Australia  
*Full Stack Developer Intern* *August 2020 – Present*  
Internship for working on a CRM software using ASP.NET Core.  
**Responsibility:** Added features and components to the client-side software (Blazor).
- 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++
- Web development:** ASP.NET Core, Entity Framework Core, SignalR, Blazor, Node.js, Express.js, Hapi.js, React.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 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](#)]
- Winston:** Implementation of neural networks in C. *WIP* – Cmake [[GitHub](#)]

## 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/IJSI](#) 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]

Last updated on August 3, 2020. Latest version of this document can be found at [pia.sh/resume](https://pia.sh/resume)