# Mohammad Abdul Ahad Chowdhury

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## Profile summary


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

- **Macquarie University** — Sydney, New South Wales, Australia
  *Master of Data Science* — *February 2020 – Present*
  Expected to graduate in December 2021.
  Coursework: Data Science, Big Data

- **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

- **SAM.Coach** — Sydney, New South Wales, Australia
  *Full Stack Developer Intern* — *August 2020 – Present*
  Internship for working on a CRM software using ASP.NET Core.
  **Responsibility**: Adding 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

- **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, Angular, 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

- **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

- **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]

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