

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, SignalR, Blazor, Node.js, Express.js, Hapi.js, React.js, Angular, 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

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/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]