

# 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. Adept at developing high-performance cloud-native web applications using ASP.NET Core and MERN-stack. Proficient in building solutions with machine learning and deep learning frameworks. Currently looking for a part-time, contract, or casual employment in the IT industry.

## EDUCATION

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- **Macquarie University** Sydney, New South Wales, Australia  
*Master of Data Science*  
February 2020 – May 2022  
Coursework: Data Science, Big Data, Machine Learning
- **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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- **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, Nest.js, React.js, Next.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 App Service, MongoDB Atlas, basic CI/CD

## PERSONAL PROJECTS

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- **KonSchool:** Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh. – ASP.NET Core, Docker, MongoDB [[GitHub](#) • [Azure](#) • [Heroku](#) • [Docker](#)]
- **Connery:** Fruit-image-classifier using convolutional neural networks. – ML.NET, ASP.NET Core [[GitHub](#) • [API Swagger](#)]
- **AddLicenseHeader:** A CLI tool that adds a license header on top of source files. – .NET Core [[GitHub](#) • [NuGet package](#)]
- **Verdict:** A basic Node.js package for parsing labeled CLI arguments. – Node.js, TypeScript [[GitHub](#) • [NPM package](#)]
- **Prospect:** An app for reading the latest posts from popular coding blogs at one place. *WIP* – Node.js, TypeScript, React.js, Next.js, Nest.js, PostgreSQL, GraphQL, Docker [[GitHub](#)]

## PUBLICATION

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- Selection of Most Suitable Secondary School Alternative by Multi-Criteria Fuzzy Analytic Hierarchy Process. [https://doi.org/10.1007/978-3-319-98678-4\\_29](https://doi.org/10.1007/978-3-319-98678-4_29)
- Fruit Image Classification Using Convolutional Neural Networks. <https://doi.org/10.4018/IJSI.2019100103>
- Fusion of BWM and AHP MCDM Methods to Choose the Most Suitable Secondary School for an Individual in the Context of Bangladesh. <https://doi.org/10.1142/s2196888819500167>