

# Mohammad Abdul Ahad Chowdhury

I am an international graduate student of Data Science at Macquarie University, with experience in web development and machine learning. I am looking for a part-time employment or an internship in IT industry.

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## Education

### Master of Data Science

#### Macquarie University

New South Wales, Australia

February 2020 – December 2021 (Tentative)

### Bachelor of Science in Computer Science and Engineering

#### North South University

Dhaka, Bangladesh

January 2014 – August 2018

Capstone project: Fruit Image Classification Using Convolutional Neural Networks

## Technical Skills

- ❑ **Programming languages:**  
C#, JavaScript (ES6), TypeScript, Python, C, Java
- ❑ **Web Development:**
  - ASP.NET Core, Entity Framework Core, Razor, Blazor, xUnit, Moq
  - React.js, Angular, Express.js, Hapi.js
- ❑ **Desktop app development:**  
Windows Forms, WPF, Electron.js, JavaFX
- ❑ **Database management and query:**  
SQL Server, SQLite, MongoDB, RethinkDB
- ❑ **Tools and Platforms:**  
Docker, MongoDB Atlas, Heroku, Azure DevOps, basic CI/CD
- ❑ **Development methodology:**  
Agile methodology with scrum

## Publication

- ❖ Selection of Most Suitable Secondary School Alternative by Multi-Criteria Fuzzy Analytic Hierarchy Process. (Springer, 2019)  
DOI: [10.1007/978-3-319-98678-4\\_29](https://doi.org/10.1007/978-3-319-98678-4_29)  
Slide presentation: [youtu.be/lztXu5F9Sxg](https://youtu.be/lztXu5F9Sxg)
- ❖ Fruit Image Classification by Convolutional Neural Networks. (IGI-Global/IJIS, 2019)  
DOI: [10.4018/IJIS.2019100103](https://doi.org/10.4018/IJIS.2019100103)
- ❖ Fusion of BWM and AHP MCDM Methods to Choose the Most Suitable Secondary School for an Individual in the Context of Bangladesh. (VJCS/World Scientific, 2019)  
DOI: [10.1142/S2196888819500167](https://doi.org/10.1142/S2196888819500167)

## Open Source Contribution

- ★ [sandoche/Darkmode.js](#): A package for adding a dark-mode-toggle to React.js pages.
- ★ [howtoencode-com-bd/howtoencode.com.bd](https://github.com/howtoencode-com-bd/howtoencode.com.bd)  
A tutorial on Git VCS in Bengali.
- ★ [devsonket/devsonket.github.io](https://github.com/devsonket/devsonket.github.io)  
Developer cheat-sheet in Bengali.

## Work Experience

### Junior Software Engineer at Dynamic Solution Innovators Ltd.

Dhaka, Bangladesh

01 February 2019 – 31 January 2020

An enterprise software company [[Official Website](#)]. Worked here on Node.js-based web applications.

- ❖ **Project: Olwel**, 01 August 2019 – 31 January 2020  
[[Client's website](#)]  
**Environment:** JavaScript, Hapi.js, React.js, Electron.js, RethinkDB, Jest  
**Contribution:**
  - ✓ Implemented attendance recording system for doctors and call-center operators.
  - ✓ Added search-by-date and search-by-name for doctor visits (a.k.a. 'missions').
  - ✓ Implemented sending mission-specific notes to the doctor on the mission.
  - ✓ Made missions-list-view component load faster by 50% by optimizing API calls.
  - ✓ Wrote unit tests; added test coverage (Istanbul).
  - ✓ Wrote scripts for generating reports on missions, with customized anonymization of patient data, for a research on 2019 dengue outbreak in Dhaka.
- ❖ **Project: OpenCRVS**, 01 March 2019 – 31 July 2019  
[[Official website](#)] • GitHub: [opencrvs/opencrvs-core](https://github.com/opencrvs/opencrvs-core)  
**Environment:** TypeScript, Hapi.js, React.js, GraphQL, MongoDB, Jest, Docker  
**Contribution:**
  - ✓ Implemented lock-screen PIN setting policy.
  - ✓ Implemented lock-screen timeout using browser's page visibility API.
  - ✓ Added conditional validation for co-dependent form-fields.
  - ✓ Added offline data storage for form drafts that uses browser's localStorage.
  - ✓ Wrote unit tests and integration tests; refactored code to increase test coverage.  
[[View commits on GitHub](#)]

### Research Assistant at North South University, Dhaka, Bangladesh

01 November 2016 – 31 March 2018

Part-time employment under the Department of Environmental Science and Management [[News article](#)]

**Project:** "Satellite-based Navigation in Civil Aviation: Performance Evaluation in the Context of Bangladesh"

**Contribution:** Developed the desktop application (using Windows Forms) for NODES, an airline management software that uses linear optimization to maximize usage of resources

## Personal Projects

- ❑ **Connery** – ML.NET, Tensorflow.NET, ASP.NET Core, Blazor  
[GitHub: [maacpiash/Connery](#)]  
Fruit-image classifier that uses convolutional neural network (model was developed via transfer learning from Inception v3 model). *WIP*.
- ❑ **Kon School?** — ASP.NET Core, Razor, Blazor, xUnit, Moq, MongoDB (Atlas) [Live website: [Azure](#) • [Heroku](#)]  
[GitHub: [maacpiash/KonSchool](#)] [Docker Hub: [maacpiash/KonSchool](#)]  
Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh.
- ❑ **Vardict** — Node.js, TypeScript [NPM: [vardict](#)] [GitHub: [maacpiash/vardict](#)]  
A basic Node.js package for parsing labeled CLI arguments.
- ❑ **MqFind** — Node.js, TypeScript, Hapi.js, React.js [GitHub: [maacpiash/MqFind](#)]  
A full-stack app that shows listings of accommodation near Macquarie University, by scraping data from the university's website. *WIP*.
- ❑ **Winston** — C, CMake [GitHub: [maacpiash/Winston](#)]  
A library of basic AI and Machine Learning algorithms, from scratch. *WIP*.
- ❑ **Bangla News Scraper** — JavaFX, JSoup, Maven [GitHub: [maacpiash/BNS](#)]  
A cross-platform desktop app that scrapes news articles from a news portal.