

Mohammad Abdul Ahad Chowdhury

International graduate student of Data Science at Macquarie University, with experience in web development and machine learning. 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

Senior-year courses: [Artificial Intelligence](#), Machine Learning, [Theory of Fuzzy Systems](#)

Technical Skills

- ❑ **Programming languages** (in order of skill level): C#, JavaScript (ES6), TypeScript, Python, C, Java, C++
- ❑ **Web Development:**
 - ASP.NET Core, Entity Framework Core, Razor, Blazor, xUnit, Moq
 - React.js, Angular, Express.js, Hapi.js, Jest
- ❑ **Desktop app development:** Windows Forms, WPF, UWP, Electron.js, JavaFX
- ❑ **Database management and query:** Microsoft 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/AISC, 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
- ❖ Fruit Image Classification by Convolutional Neural Networks. (IGI-Global/IJJSI, 2019)
DOI: [10.4018/IJJSI.2019100103](https://doi.org/10.4018/IJJSI.2019100103)
- ❖ Fusion of BWM and AHP MCDM Methods to Choose the Most Suitable Secondary School for an Individual in the Context of Bangladesh. (World Scientific/VJCS, 2019)
DOI: [10.1142/S2196888819500167](https://doi.org/10.1142/S2196888819500167)

Open Source Contribution

- ★ [sandoche/Darkmode.js](#)
- ★ [howtocode-com-bd/git.howtocode.com.bd](#)
- ★ [devsonket/devsonket.github.io](#)

Work Experience

Junior Software Engineer at Dynamic Solution Innovators Ltd.

Dhaka, Bangladesh

01 February 2019 – 31 January 2020

An enterprise software company [\[Website\]](#). 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 (Mocha); 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

[\[Website\]](#) • GitHub: [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 API.
- ✓ Wrote unit tests (Jest) and integration tests (Enzyme).
- ✓ 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
[\[API \(Swagger\)\]](#) [GitHub: [maacpiash/Connery](#)]
Fruit-image-classifier that uses convolutional neural network.
- ❑ **Kon School?** – ASP.NET Core, Razor, xUnit, MongoDB (mLab), Docker
[Live website: [Azure](#) • [Heroku](#)] [GitHub: [maacpiash/KonSchool](#)]
[Docker Hub: [maacpiash/KonSchool](#)]
Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh.
- ❑ **Winston** – C, Cmake [GitHub: [maacpiash/Winston](#)]
Implementation of neural network from scratch, in C. *WIP*.
- ❑ **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 campuses by scraping the official accommodation website of the university. *WIP*.
- ❑ **Bangla News Scraper** – JavaFX, jsoup, Maven [GitHub: [maacpiash/BNS](#)]
A cross-platform desktop app that scrapes news articles from a news portal.