

Mohammad Abdul Ahad Chowdhury

Bangladeshi graduate student of Data Science at Macquarie University, with experience in full-stack web development and academic machine learning projects. Looking for a part-time/casual employment in the 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 [[GitHub](#)]

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

Technical Skills

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

Publication

- ❖ Selection of Most Suitable Secondary School Alternative by Multi-Criteria Fuzzy Analytic Hierarchy Process. ([Springer/AISC, 2019](#))
- ❖ Fruit Image Classification by Convolutional Neural Networks. ([IGI Global/IJST, 2019](#))
- ❖ 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](#))

Open Source Contribution

- ★ [sandoche/Darkmode.js](#)
A Node.js package for adding dark-mode-toggle to React.js websites.
- ★ [howtocode-com-bd/git.howtocode.com.bd](#)
A tutorial on Git, in Bengali.
- ★ [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 [[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, Socket.IO, RethinkDB
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 patients' personal data, for a research on the 2019 dengue outbreak in Dhaka.
- ❖ **Project: OpenCRVS**, 01 March 2019 – 31 July 2019 [[Website](#) • [GitHub repo](#)]
Environment: TypeScript, Hapi.js, React.js, GraphQL, MongoDB, Docker (Swarm)
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 and integration tests; refactored code to increase test coverage.[\[View commits on GitHub repo\]](#)

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 ([website](#)) for a research project titled "Satellite-based Navigation in Civil Aviation: Performance Evaluation in the Context of Bangladesh" [[News article](#)]

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 repo](#)]
Fruit-image-classifier that uses convolutional neural network.
- ❑ **Kon School?** – ASP.NET Core [[Azure](#) • [Heroku](#)] [[GitHub repo](#)] [[Docker Image](#)]
Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh.
- ❑ **Winston** – C, Cmake [[GitHub repo](#)]
Implementation of neural network from scratch. *WIP*.
- ❑ **Vardict** – Node.js, Typescript [[NPM package](#)] [[GitHub repo](#)]
A basic Node.js package for parsing labeled CLI arguments.
- ❑ **MqFind** – Node.js, TypeScript, Hapi.js, React.js [[GitHub repo](#)]
A web 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 repo](#)]
A cross-platform desktop app that scrapes news articles from a news portal.