

Mohammad Abdul Ahad Chowdhury

Graduate student of Data Science at Macquarie University
Full stack web developer, AI aficionado, research enthusiast.

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Education

Master of Data Science

Macquarie University
New South Wales, Australia
February 2020 – Present

Bachelor of Science in Computer Science and Engineering

North South University
Dhaka, Bangladesh
January 2014 – August 2018

Technical Skills

- ❑ **Programming languages:**
C#, JavaScript (ES6), TypeScript, Python, C, Java
- ❑ **ASP.NET Core stack:**
ReST API, Entity Framework Core, Razor, Blazor, xUnit
- ❑ **JavaScript/Node.js stack:**
React.js, Express.js, Hapi.js, Jest, Mocha, Chai
- ❑ **Desktop app development:**
Windows Forms, WPF, Electron.js
- ❑ **DevOps Tools:**
Docker, Heroku, mLab, Azure DevOps, basic CI/CD

Publication

- ❖ Selection of Most Suitable Secondary School Alternative by Multi-Criteria Fuzzy Analytic Hierarchy Process.
DOI: [10.1007/978-3-319-98678-4_29](https://doi.org/10.1007/978-3-319-98678-4_29)
Slide presentation video: [YouTube](#)
- ❖ Fruit Image Classification by Convolutional Neural Networks.
DOI: [10.4018/IJSL.2019100103](https://doi.org/10.4018/IJSL.2019100103)

Open Source Contribution

- ★ [sandoche/Darkmode.js](#)
Node.js package for adding a dark-mode toggle to webpages.
- ★ [howtoencode.com-bd/git.howtoencode.com.bd](#)
Tutorials 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

February 2019 – January 2020

An enterprise software company [[Official Website](#)]. Currently working here on Node.js-stack.

✓ **Project: Olwel**, August 2019 – January 2020

Description: The solution for Olwel, a startup that provides telemedicine and essential doorstep healthcare services in Dhaka, Bangladesh. [[Official Website](#)]

Contribution:

- Added new features on both server-side (Hapi.js) and client-side (React.js, Electron.js) software (e.g. attendance recording system for doctors).
- Optimized API calls and made parts of client-side app load more than 25% faster.
- Upgraded Node.js packages (react, material-ui, etc.) on the client-side software.
- Wrote database (RethinkDB) migrations for generating reports of home-visits by doctors during 2019 dengue outbreak in Dhaka.

✓ **Project: OpenCRVS**, March 2019 – July 2019

Description: A system supporting Civil Registrations and Vital Statistics (CRVS) for registering citizens' vital events like birth, death, marriage etc. [[Official Website](#)]

Contribution:

- Added features (new components, conditional form validations, etc.) and fixed bugs on client-side application using React.js.
- Wrote unit and integration tests using Jest and Cypress.

[[View commits](#)]

Research Assistant at North South University

Dhaka, Bangladesh

November 2016 – May 2018

Part-time employment under the Department of Environmental Science and Management.

Research project: "Satellite-based Navigation in Civil Aviation: Performance Evaluation in the Context of Bangladesh". [[News Article](#)]

Contribution: Developed the client-side desktop application using Windows Forms for **NODES**, an airline management software that uses linear optimization on factors of the market (e.g. demand, competition) to maximize usage of resources (e.g. aircrafts, hubs).

Personal Projects

- ❑ **Kon School?** — ASP.NET Core, MongoDB [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](#)]
A library of basic AI and machine learning algorithms. *WIP*.
- ❑ **Vardict** — Node.js, TypeScript [NPM: [vardict](#)] [GitHub: [maacpiash/vardict](#)]
A basic package for parsing labeled CLI arguments in Node.js.
- ❑ **MqFind** — Node.js, TypeScript, Express.js, React.js [GitHub: [maacpiash/mqfind](#)]
A full-stack web app (scraper server and client) that shows listings of available accommodation near Macquarie University.
- ❑ **Bangla News Scraper** — JavaFX, JSoup, Maven [GitHub: [maacpiash/BNS](#)]
A cross-platform desktop app that scrapes news articles from a news portal.