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
Sydney, 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, Identity Framework, 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
Slide presentation video: YouTube

❖ Fruit Image Classification by Convolutional Neural Networks.
DOI: 10.4018/IJSI.2019100103

Open Source Contribution

★ sandoche/Darkmode.js
Node.js package for adding a dark-mode toggle to webpages.

★ howtocode-com-bd/git.howtocode.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:
o Added new features on both server-side (Hapi.js) and client-side (React.js, Electron.js) software (e.g. attendance recording system for doctors).
o Optimized API calls and made parts of client-side app load approx. 25% faster.
o Upgraded Node.js packages (react, material-ui, etc.) on the client-side software.
o 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:
o Added features (new components, conditional form validations, etc.) and fixed bugs on client-side application using React.js.
o 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.

❏ **Mq-Housing** — Node.js, TypeScript, Express.js, React.js, Webpack
[ReST API on Azure • Client-app on Heroku] [GitHub: maacpiash/mq-housing]
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.