

# Mohammad Abdul Ahad Chowdhury

Full stack web developer, AI aficionado, research enthusiast.

Team player • Dedicated • Inquisitive

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## Education

### Bachelor of Science in Computer Science and Engineering

North South University, Dhaka, Bangladesh

January 2014 – August 2018

#### Senior Year Design (Capstone) Project:

Fruit Image Classification Using Convolutional Neural Networks

## Technical Skills

- ❑ **Programming languages:** C#, JavaScript (ES6), TypeScript, Python; working knowledge of C and Java
- ❑ **ASP.NET Core stack:** REST API, Entity Framework Core, Identity Framework, Razor, Blazor, gRPC, SignalR, xUnit
- ❑ **JavaScript/Node.js stack:** React.js, Express.js, Hapi.js, Jest
- ❑ **Desktop app development:** Windows Forms, WPF, Electron.js
- ❑ **Database Management and Query:**
  - Database systems: Microsoft SQL Server, MongoDB, RethinkDB
  - Query languages: SQL, GraphQL
- ❑ **Development and Operational Tools:** Docker, Heroku, mLab, Azure DevOps, basic CI/CD
- ❑ Agile methodology, scrum

## 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)
- ❖ Fruit Image Classification by Convolutional Neural Networks. DOI: [10.4018/IJSL.2019100103](https://doi.org/10.4018/IJSL.2019100103)

## Linguistic Skills

- ❖ **Bengali:** Native
- ❖ **English:** IELTS (Academic module) Test taken on October 20, 2018 Band score: 8.0 (CEFR Level: C1) Listening: 9.0, Speaking: 8.0, Reading: 9.0, Writing: 7.0

## Work Experience

### Junior Software Engineer at Dynamic Solution Innovators Ltd., Dhaka, Bangladesh

February 2019 – Present

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

#### ✓ **Project: Olwel**, August 2019 – Present

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

#### **Contribution:**

- Adding new features on both server-side and client-side (React.js, Electron.js) software (e.g. attendance recording system for home-visit/call-center doctors).
- Upgraded Node.js packages 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 on client-side application using React.js.
- Wrote unit and integration tests using Jest and Cypress.

### Software Developer at VWY Aerospace, Dhaka, Bangladesh

January 2017 – May 2018

A tech startup focused on aviation-based solutions. Part-time employment.

**Project: NODES**, an airline management software that uses linear optimization on factors (e.g. demand, competition) to maximize usage of resources (e.g. aircrafts, hubs).

**Contribution:** Developed the desktop application using Windows Forms.

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

November 2016 – December 2016

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](#)]

## Personal Projects

- ❑ **Kon School?** — ASP.NET Core [Live: [Azure](#) • [Heroku](#)] [GitHub: [maacpiash/KonSchool](https://github.com/maacpiash/KonSchool)] [Docker Hub: [maacpiash/KonSchool](https://hub.docker.com/r/maacpiash/KonSchool)] Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh.
- ❑ **Winston** — C, Cmake [GitHub: [maacpiash/Winston](https://github.com/maacpiash/Winston)] A library of basic AI and machine learning algorithms. *WIP*.
- ❑ **Vardict** — Node.js, TypeScript [NPM: [vardict](https://www.npmjs.com/package/vardict)] [GitHub: [maacpiash/vardict](https://github.com/maacpiash/vardict)] A basic package for parsing labeled CLI arguments in Node.js.
- ❑ **Bangla News Scraper** — JavaFX, JSoup, Maven [GitHub: [maacpiash/BNS](https://github.com/maacpiash/BNS)] A cross-platform desktop app that scrapes news articles from a news portal.

## Open Source Contribution

- ★ [sandoche/Darkmode.js](https://github.com/sandoche/Darkmode.js): Node.js package for adding dark-mode toggle to webpages.
- ★ [howtocode-com-bd/git.howtocode.com.bd](https://github.com/howtocode-com-bd/git.howtocode.com.bd): Tutorials on Git in Bengali.
- ★ [devsonket/devsonket.github.io](https://github.com/devsonket/devsonket.github.io): Developer cheat-sheet in Bengali.