Md. Abdul Ahad Chowdhury

Full stack web developer, AI aficionado, research maven.
Experienced in cross-platform application development.
Adherent of OOP, design patterns, and efficient coding.
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, C
- **ASP.NET Core stack:** Web API, EF Core, Identity Framework, Razor, Blazor, xUnit
- **JavaScript/Node.js stack:** React.js, Angular, Express.js, Hapi.js, Jest
- **Desktop app development:** Windows Forms, WPF, UWP, Xamarin, Electron.js

Publication

- Selection of Most Suitable Secondary School Alternative by Multi-Criteria Fuzzy Analytic Hierarchy Process. DOI: 10.1007/978-3-319-98678-4_29
- Fruit Image Classification by Convolutional Neural Networks. DOI: 10.4018/IJSI.2019100103

Linguistic Skills

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

Open Source Contribution

- sandoche/Darkmode.js
  An NPM package for adding a dark-mode toggle to a website.
- howtocode.com.bd/git.howtocode.com.bd
  A website containing a series of tutorials on Git in Bengali.

Work Experience

Junior Software Engineer at Dynamic Solution Innovators Ltd.

February 2019 – Present
DSi is an enterprise software company. Currently working here on Node.js-based web applications.

- **Project**: **Olwel**, *August 2019 – Present*
  Description: The online solution for Olwel, a healthcare startup [Official Website]
  Contribution:
  - Adding new features on both server-side (Hapi.js) and client-side (React.js, Electron.js) applications.
  - Wrote database migrations (RethinkDB) for doctor visits during 2019 dengue outbreak in Dhaka.

- **Project**: **OpenCRVS**, *March 2019 – July 2019*
  Description: A system supporting Civil Registrations and Vital Statistics (CRVS) that would be used to register vital events like birth, death, marriage, etc. [Official Website]
  Contribution:
  - Added new features on client-side application (event registration) using React.js.
  - Wrote unit tests for client-side application using Jest.

Software Developer at VWY Aerospace

January 2017 – May 2018
A tech startup focused on aviation-based solutions. Worked (*part-time*) here on software development.
Project: **NODES**, an airline management software that uses linear optimization to maximize usage of resources.
Environment: .NET Framework, Python
Contribution: Developed the desktop application using Windows Forms.

Research Assistant at North South University

November 2016 – December 2016
Employment under the Department of Environmental Science and Management. Worked (*part-time*) on one of the department's research projects.
Research project: "Satellite-based Navigation in Civil Aviation: Performance Evaluation in the Context of Bangladesh". [News Article]

Personal Projects

- **Kon School?** — ASP.NET Core, MongoDB, JavaScript, Node.js [Live on Azure | Live on Heroku] [GitHub: maacpiash/KonSchool, maacpiash/konschool-mlab-host] [Docker: 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, [GitHub: maacpiash/vardict] [NPM: vardict]
  A basic package for parsing labeled CLI arguments in Node.js.

- **Dante** — ASP.NET Core (REST API, Razor Pages), EF Core, Identity Framework [GitHub: maacpiash/Dante]
  A blog web application, with CRUD and user auth functionalities.

- **Bangla News Scraper** — Java, JavaFX, JSoup, Maven [GitHub: maacpiash/BanglaNewsScraper]
  A cross-platform desktop app that scrapes news articles from a news portal.