Mohammad Abdul Ahad Chowdhury

I am a graduate student of Data Science at Macquarie University. With experience in ASP.NET Core and MERN-stack, I am looking for a part-time employment as a full-stack web developer.

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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

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, Angular, Express.js, Hapi.js, Jest, Mocha, Chai
- **Desktop app development:**
  Windows Forms, WPF, Electron.js
- **DevOps Tools:**
  Docker, Heroku, MongoDB Atlas, 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]. Worked here on web applications using Node.js-stack.

- ❖ **Project**: **Olwel** [Client website], *August 2019 – January 2020*
  Environment: JavaScript, Hapi.js, React.js, Electron.js, RethinkDB, Jest
  Contribution:
  - o Added features on server-side and client-side software.
    - ✓ Implemented attendance recording system for doctors and call-center operators from scratch.
    - ✓ Added search-by-date and search-by-name features for searching missions.
    - ✓ Implemented sending mission-specific notes to doctor.
    - ✓ Wrote database migration script for adding date of creation to existing mission-review records from activity logs.
    - ✓ Made missions-list-view component load faster by more than 25% by optimizing API calls.
  - o Wrote unit tests; added test coverage (Istanbul).
  - o Wrote database migrations for generating reports of home-visits by doctors (a.k.a. 'missions') during 2019 dengue outbreak in Dhaka.

- ❖ **Project**: OpenCRVS [Project website], *March 2019 – July 2019*
  Environment: TypeScript, Hapi.js, React.js, MongoDB, Jest, Cypress, Docker
  Contribution:
  - o Added features and fixed bugs on client-side application.
    - ✓ 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.
  - o Wrote unit tests and integration tests.

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.

- **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 app that shows listings of accommodation near Macquarie University.

- **Winston** — C, CMake [GitHub: maacpiash/Winston]
  A library of basic AI and Machine Learning algorithms, from scratch. *WIP*

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

Last edited on 1 March 2020. Latest version of this document can be found at pia.sh/resume