

MOHAMMAD ABDUL AHAD CHOWDHURY

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PROFILE SUMMARY

Part-time software engineer based in Sydney, Australia. Graduate student of data science, with one year of professional experience in full-stack web development. Proficient in developing high-performance cloud-native web applications (ASP.NET, MERN-stack) and machine learning solutions.

EDUCATION

- Macquarie University** Sydney, NSW, Australia
Master of Data Science
Coursework: Data Science, Big Data, Machine Learning [[Repositories on GitHub](#)]
February 2020 – May 2022
- North South University** Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering
Capstone project: Fruit Image Classification Using Convolutional Neural Networks
Coursework: Artificial Intelligence, Theory of Fuzzy Systems, Software Engineering, Microprocessor Interfacing & Embedded System, Computer Graphics [[Repositories on GitHub](#)]
January 2014 – August 2018

WORK EXPERIENCE

- Apollo International** Sydney, Australia
Software Engineer
Part-time employment developing the in-house CRM solution.
April 2021 – Present
Responsibilities: Development of both the client-side (Next.js) and the server-side (ASP.NET 5) software.
- Dynamic Solution Innovators Ltd.** Dhaka, Bangladesh
Junior Software Engineer
February 2019 – January 2020
Full-time employment working on Node.js-based full-stack web applications: following agile methodology (scrum).
Projects: The [OpenCRVS](#) project [[commits on GitHub](#)]; the enterprise solution of [Olwel](#), a healthcare startup.
Responsibilities: Added components and bug-fixes to client-side software (React.js, Electron.js); added features, optimizations, and bug-fixes to server-side software (Hapi.js); optimized database queries and wrote database migration scripts (RethinkDB); wrote unit tests (Jest).
- North South University** Dhaka, Bangladesh
Research Assistant
November 2016 – April 2018
Part-time employment under the Department of Environmental Science and Management. ([relevant news article](#))
Project: NODES, an airline management system that uses linear optimization to maximize utilization of resources.
Responsibility: Developed the front-end software (.NET Framework, Windows Forms) of NODES.

TECHNICAL SKILLS

- Programming languages:** C#, JavaScript (ES2015+), TypeScript, Python
- Server-side development:** ASP.NET, Entity Framework Core, IdentityServer4, Node.js, Express.js, Hapi.js, GraphQL
- Client-side development:** React.js, Next.js, Gatsby.js, Material UI, Webpack, Blazor, PWA
- Desktop app development:** Windows Forms, WPF, Electron.js
- Machine learning & data science:** Jupyter Notebook, NumPy, Pandas, Matplotlib, NLTK, Scikit-Learn, ML.NET
- Database systems:** MongoDB, MySQL, Microsoft SQL Server, PostgreSQL, SQLite, RethinkDB
- DevOps:** Docker, PaaS (Heroku, Netlify, Azure App Service), MongoDB Atlas, CI/CD, SSH, VPS services

PERSONAL PROJECTS

- KonSchool:** Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh. – ASP.NET Core, Docker, MongoDB [[GitHub](#) • [Azure](#) • [Heroku](#) • [Docker](#)]
- Connery:** Fruit-image-classifier using convolutional neural networks. – ML.NET, ASP.NET Core [[GitHub](#) • [API Swagger](#)]
- AddLicenseHeader:** A CLI tool that adds a license header on top of source files. – .NET Core [[GitHub](#) • [NuGet package](#)]
- Verdict:** A basic Node.js package for parsing labeled CLI arguments. – Node.js, TypeScript [[GitHub](#) • [NPM package](#)]
- Winston:** Implementation of neural networks, from scratch. WIP. – C, Cmake [[GitHub](#)]

PUBLICATION

- Selection of Most Suitable Secondary School Alternative by Multi-Criteria Fuzzy Analytic Hierarchy Process. https://doi.org/10.1007/978-3-319-98678-4_29 [Slide presentation: youtu.be/lztXu5F9Sxg]
- Fruit Image Classification Using Convolutional Neural Networks. <https://doi.org/10.4018/ijsi.2019100103>
- Fusion of BWM and AHP MCDM Methods to Choose the Most Suitable Secondary School for an Individual in the Context of Bangladesh. <https://doi.org/10.1142/s2196888819500167>

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