

MOHAMMAD ABDUL AHAD CHOWDHURY

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PROFILE SUMMARY

Bangladeshi graduate student of data science, with one year of professional experience in full-stack web development. Proficient in developing cloud-native web applications (ASP.NET Core, MERN-stack) and machine learning solutions. Currently looking for a part-time, contract, or casual employment in the IT industry.

EDUCATION

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

WORK EXPERIENCE

- **Dynamic Solution Innovators Ltd.** Dhaka, Bangladesh
Junior Software Engineer
February 2019 – January 2020
Full-time employment working on Node.js-based full-stack (React.js and Hapi.js) web applications: the OpenCRVS project, and the enterprise solution of Olwel, a healthcare startup. Agile methodology (scrum) was followed.
Responsibilities: Added features and components; fixed bugs; optimized API calls and database queries; wrote database migration scripts; wrote unit tests. [View the commits for OpenCRVS on GitHub [here](#)]
- **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](#))
Responsibility: Developed the front-end software (Windows Forms) of NODES, an airline management system.

TECHNICAL SKILLS

- **Programming languages:** C#, JavaScript (ES6), TypeScript, Python, C, Java, C++, R
- **Web development:** ASP.NET Core, Entity Framework Core, SignalR, Blazor, Node.js, Express.js, Hapi.js, Nest.js, React.js, Next.js, Vue.js, Angular (2+), Webpack, PWA, ReST, GraphQL, Socket.IO, Microservices architecture
- **Machine learning & data science:** Jupyter Notebook, NumPy, Pandas, NLTK, Scikit-Learn, ML.NET
- **Desktop app development:** Windows Forms, WPF, UWP, Electron.js, JavaFX
- **Database systems:** MongoDB, MySQL, Microsoft SQL Server, PostgreSQL, SQLite, RethinkDB
- **DevOps:** Docker, Heroku, Azure App Service, MongoDB Atlas, basic CI/CD

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](#)]
- **Vardict:** A basic Node.js package for parsing labeled CLI arguments. – Node.js, TypeScript [[GitHub](#) • [NPM package](#)]
- **Prospect:** An app for reading the latest posts from popular coding blogs. *WIP* – Node.js, TypeScript, React.js, Next.js, Nest.js, PostgreSQL, GraphQL, Docker [[GitHub](#)]

PUBLICATION

- Rahman, N. S. M. R., Chowdhury, M. A. A., Siraj, A.-A. N., Rahman, R. M., Karim, R., & Alam, K. M. A. (2018). **Selection of Most Suitable Secondary School Alternative by Multi-Criteria Fuzzy Analytic Hierarchy Process.** In: Choroś K., Kopel M., Kukla E., Siemiński A. (eds) Multimedia and Network Information Systems, 279-289. MISSI 2018. Advances in Intelligent Systems and Computing, vol 833. Springer, Cham. https://doi.org/10.1007/978-3-319-98678-4_29
- Ashraf, S., Kadery, I., Chowdhury, M. A. A., Mahbub, T. Z., & Rahman, R. M. (2019). **Fruit Image Classification Using Convolutional Neural Networks.** International Journal of Software Innovation, 7(4), 51-70. <https://doi.org/10.4018/ijsi.2019100103>
- Rahman, N. S. M. R., Chowdhury, M. A. A., Firoze, A., & Rahman, R. M. (2019). **Fusion of BWM and AHP MCDM Methods to Choose the Most Suitable Secondary School for an Individual in the Context of Bangladesh.** Vietnam Journal of Computer Science, 06(03), 311-328. <https://doi.org/10.1142/s2196888819500167>