Mohammad Abdul Ahad Chowdhury

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Profile summary

Bangladeshi graduate student of data science, with one year of full-time professional experience in full-stack web development. Polyglot programmer, problem solver, team player. Skilled in developing high-performance cloud-native web apps using ASP.NET Core and MERN-stack. Proficient in building solutions with machine learning and deep learning technologies. Currently looking for part-time employment or an internship in the IT industry.

Education

- **Macquarie University** — Sydney, New South Wales, Australia
  Master of Data Science — *February 2020 – May 2022*
  Coursework: Data Science, Big Data
- **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 my 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, React.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, 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**: A basic Node.js blog-reader app. – Node.js, TypeScript, Next.js, Nest.js, PostgreSQL [GitHub]

Publication

- Rahman N. S. M. R., **Chowdhury M. A. A.**, Siraj AA. N., Rahman R. M., Karim R., Alam K. M. A. (2019). **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. 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 (IJSI), 7(4), 51-70. https://doi.org/10.4018/IJSI.2019100103
- Rezaur Rahman, N. S. M., **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

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