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 — *February 2020 – June 2022*
  Coursework: Repositories on GitHub

- **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: Repositories on GitHub

Work Experience

- **Apollo International** — Sydney, Australia
  Software Engineer — *April 2021 – Present*
  Part-time employment developing the in-house CRM solution.

  Responsibilities: Development of the client-side (Next.js) and the server-side (ASP.NET Core with PostgreSQL following microservices architecture) software; integration and deployment of the complete solution (Kubernetes).

- **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 softwware (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 Core, Entity Framework Core, 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, IaaS (VPS)

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]

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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