MOHAMMAD ABDUL AHAD CHOWDHURY

Graduate Student of Data Science ● Full-Stack Web Developer ● Machine Learning Expert

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EDUCATION

Western Sydney University

Master of Data Science

📅 Feb 2022 – Present   📍 Sydney, Australia

- Coursework: Natural Language Understanding, Social Media Intelligence, Visualisation

North South University

Bachelor of Science in Computer Science and Engineering

📅 Jan 2014 – Aug 2018   📍 Dhaka, Bangladesh

- Capstone project: Fruit Image Classification Using Convolutional Neural Networks
- Coursework: Repositories on GitHub

WORK EXPERIENCE

Apollo International

Software Engineer

📅 20 Apr 2021 – 25 Jul 2022   📍 Sydney, Australia

Part-time employment developing the in-house CRM solution.

Responsibilities:
- Development of the client-side software (React.js, Next.js, Redux.js, Material UI).
- Development of the server-side software (ASP.NET Core, Entity Framework Core, PostgreSQL, Redis).
- Unit testing of the back-end project (xUnit).
- Unit and end-to-end testing of the front-end project (Jest, React Testing Library, Playwright).
- Integration and deployment of the complete solution on an IaaS/VPS instance (SSH, Nginx, Certbot).

Dynamic Solution Innovators Ltd.

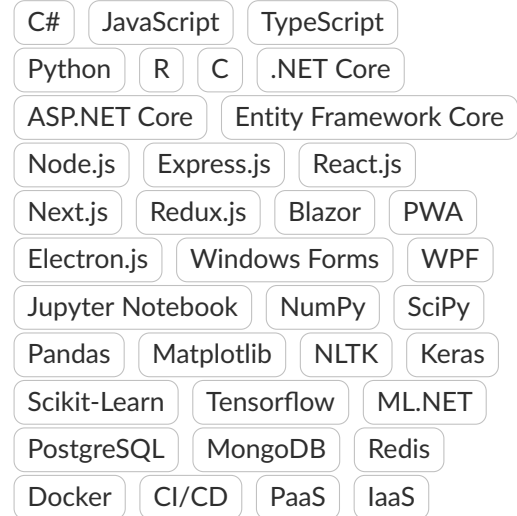**Junior Software Engineer**

📅 1 Feb 2019 – 31 Jan 2020   📍 Dhaka, Bangladesh

Full-time employment developing enterprise web applications.

Projects: The OpenCRVS project (technical details, commits) and the full-stack solution of Olwel, an IT-based healthcare startup (technical details).

Responsibilities:
- Addition of new components, features, and bug-fixes to the client-side software (React.js, Electron.js, Redux.js, Material-UI).
- Addition features and optimizations to the server-side software (Node.js, Hapi.js).
- Optimization of database queries and database migration scripts (RethinkDB).
- Composition of unit and end-to-end tests (Jest, Cypress).

TECHNICAL SKILLS

C#   JavaScript   TypeScript
Python   R   C   .NET Core
ASP.NET Core   Entity Framework Core
Node.js   Express.js   React.js
Next.js   Redux.js   Blazor   PWA
Electron.js   Windows Forms   WPF
Jupyter Notebook   NumPy   SciPy
Pandas   Matplotlib   NLTK   Keras
Scikit-Learn   Tensorflow   ML.NET
PostgreSQL   MongoDB   Redis
Docker   CI/CD   PaaS   IaaS

PERSONAL PROJECTS

KonSchool
- Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh.
- Tech-stack: ASP.NET Core, MongoDB.
- Status: Completed, with unit and e2e tests (xUnit and Moq) at 95% coverage. Another version is in development, with more features and modularity.
- Categories: Web application, Recommendation system.
- Links: GitHub repository, Hosted on Azure and Heroku, Docker image

Connery
- Classifier of images of fruits that uses convolutional neural networks.
- Tech-stack: ML.NET, ASP.NET Core.
- Status: Completed, fixing bugs now.
- Categories: Web application, Machine learning, Deep learning
- Links: GitHub repository, API Swagger

Winston
- Implementation of neural networks from scratch.
- Tech-stack: C, CMake.
- Status: In development
- Categories: Machine learning, Deep learning
- Links: GitHub repository