# 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: Social Media Intelligence, Natural Language Understanding, Predictive Analysis

### North South University

#### **Bachelor of Science in Computer Science and Engineering**

m 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**

Part-time employment developing the in-house CRM solution. Stack: ASP.NET Core, EF Core, xUnit, PostgreSQL, Redis, React.js, Next.js, Material UI, Jest, RTL, Playwright, SSH, Nginx, Certbot. Responsibilities:

- Development of the client-side and the server-side software.
- Unit testing of the back-end project.
- Unit and end-to-end testing of the front-end project.
- Integration and deployment of the solution on a VPS instance.

## 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).

Stack: Node.js, Hapi.js, MongoDB, RethinkDB, GraphQL, Docker Swarm, React.js, Electron.js, Redux.js, Material UI, Jest, Cypress. Responsibilities:

- Addition of features and bug-fixes to the client-side software.
- Addition features and optimizations to the server-side software.
- Optimization of database queries and database migration scripts.
- Composition of unit and end-to-end tests.

# North South University

### **Research Assistant**

1 Nov 2016 - 30 Apr 2018

◆ Dhaka, Bangladesh

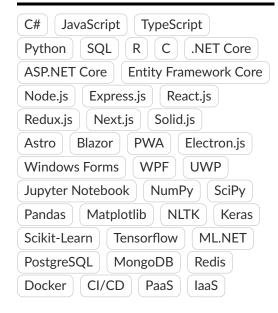
Part-time employment under the Department of Environmental Science & Management (website) (relevant news article).

Projects: NODES, an airline management system that uses linear optimization to maximize utilization of resources.

Stack: .NET Framework, Windows Forms.

Responsibility: Development of the front-end software of NODES.

### TECHNICAL SKILLS



# PERSONAL PROJECTS

#### KonSchool

- Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh.
- Tech-stack: ASP.NET Core (Web API, Razor pages), MongoDB.
- Status: Completed, with unit and e2e tests (xUnit and Moq) at 95% coverage.
  - Another version is in development, with separate web APIs and a front-end developed with Blazor.
- Categories: Web application.
- 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

#### Winston

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