# MOHAMMAD ABDUL AHAD CHOWDHURY

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

@ ahad@maacpiash.com

**\** +61482605155

www.maacpiash.com

naacpiash ?

in www.linkedin.com/in/maacpiash

# **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

Ohaka, Bangladesh

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

# WORK EXPERIENCE

## **Apollo International**

## **Software Engineer**

## 20 Apr 2021 - Present

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 laaS/VPS instance (SSH, Nginx, Certbot).

## Dynamic Solution Innovators Ltd.

## **Junior Software Engineer**

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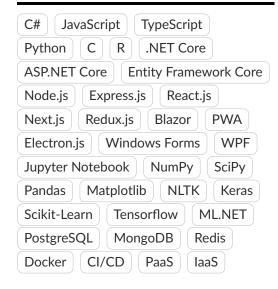
Full-time employment developing enterprise web applications.

Projects: the OpenCRVS project (commits on GitHub) and the full-stack solution of Olwel, a healthcare startup.

#### 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**



# PERSONAL PROJECTS

### KonSchool

- Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh.
- Tech-stack: ASP.NET Core, MongoDB.
- Categories: Web application, Recommendation system.
- Links: GitHub repository, Hosted on <u>Azure</u> and <u>Heroku</u>, <u>Docker image</u>

### Connery

- Fruit-image-classifier using convolutional neural networks.
- Tech-stack: ML.NET, ASP.NET Core.
- Categories: Web application, Machine learning, Deep learning
- Links: GitHub repository, API Swagger

#### Winston

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

### addlh

- A CLI tool that adds a license header on top of each source file of a directory.
- Tech-stack: .NET Core.
- Categories: CLI tool, Developer tool
- Links: Nuget package, GitHub repository