Md. Abdul Ahad Chowdhury

Dhaka, Bangladesh
+8801677701431
ahadc@maacpiash.com
Skype: maacpiash
www.maacpiash.com
https://github.com/maacpiash
https://linkedin.com/in/maacpiash

C# connoisseur with expertise in JavaScript.
Full stack web developer, AI aficionado, research maven.
Experienced in cross-platform application development.
Adherent of OOP, design patterns, and efficient coding.
Team player • Dedicated • Inquisitive

Education

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

North South University, Dhaka, Bangladesh
January 2014 – August 2018
CGPA 2.98 on a scale of 4.00
Elective Courses (Senior Year):
- Artificial Intelligence
- Machine Learning
- Theory of Fuzzy Systems

Senior Year Design (Capstone) Project: Fruit Image Classification Using Convolutional Neural Networks
Extra-Curricular Activities:
- NSU ACM Student Chapter
- NSU Microsoft Student Partner

Technical Skills

❑ **Languages:**
   ★ Expert in C#
   ★ Proficient in JavaScript (ES6), TypeScript, Python, C
   ★ Familiar with C++, Java, Swift
❑ **ASP.NET Core stack:**
   ★ Server-side: Web API, SignalR, Entity Framework Core, Identity Framework, OData
   ★ Monolithic: MVC, Razor
   ★ Client-side: Blazor
   ★ Testing: xUnit
❑ **JavaScript/Node.js stack:**
   ★ Server-side: Express.js, Hapi.js
   ★ Client-side: Angular, React.js
   ★ Testing: Jest, Enzyme, Cypress
❑ **Desktop application development:**
   ★ Expert in Windows Forms, WPF
   ★ Proficient in UWP, Xamarin, Electron.js
   ★ Familiar with JavaFX
❑ **Database management:**
   ★ Query languages: SQL, NoSQL, GraphQL
   ★ DBMS: Microsoft SQL Server, MySQL, MongoDB, RethinkDB
❑ **Tools and platforms:**
   ★ Development tools: Git, Bash, Cmake
   ★ CMS: Contentful
   ★ Hosting and deployment: Azure DevOps, Heroku, Docker, mLab, Travis, AppVeyor

Managerial Skills

➔ Agile methodology with scrum
➔ Client relationship management
➔ Requirement gathering
➔ Issue resolution
➔ Documentation and reporting

Linguistic Skills

❖ **Bengali:** Native
❖ **English:** IELTS (Academic module)
   Result published on October 20, 2018
   Band score: 8.0 (CEFR Level: C1)
   Speaking: 8.0, Listening: 9.0,
   Reading: 8.0, Writing: 7.0

Work Experience

Junior Software Engineer at Dynamic Solution Innovators Ltd.

February 2019 – Present
DSi is an enterprise software company. Currently working here on Node.js-based web applications.

- **Project**: **Olwel**, *August 2019 – Present*
  Description: The online solution for Olwel, a Finland based startup working in Bangladesh to provide telemedicine and essential doorstep healthcare service. [Official Website]
  Environment: Node.js, JavaScript (ES6), Yarn, Hapi.js, React.js, Electron.js, RethinkDB, Socket.io
  Contribution:
  - Created and currently working on the 'prescription' PWA for visiting doctors.
  - Wrote RethinkDB migrations for doctor visits ('missions') during dengue outbreak in Dhaka in 2019.
  - Fixed bugs on 'mission control' desktop application for call center operators.

- **Project**: **OpenCRVS**, *March 2019 – July 2019*
  Description: A microservice-architecture software that supports Civil Registrations and Vital Statistics (CRVS), funded by Plan International, Jembi Health Systems and the Government of Bangladesh. This software would be used by government officials to register vital events like birth, death, marriage, divorce, adoption, migration, etc. [Official Website]
  Environment: Node.js, TypeScript, Yarn, Hapi.js, React.js, Jest, Cypress, Docker, Docker Swarm, GraphQL, MongoDB, Redis, InfluxDB
  Contribution: Worked on the client-side software (event registration) using React.js and Jest.

Software Developer at VWY Aerospace

January 2017 – May 2018
A tech startup focused on aviation-based solutions. Worked (*part-time*) here on software development.
Project: **NODES**, an airline management software that uses linear optimization to maximize usage of resources.
Environment: .NET Framework, Python
Contribution: Developed the desktop application using Windows Forms.

Research Assistant at North South University

November 2016 – December 2016
Employment under the Department of Environmental Science and Management. Worked (*part-time*) on one of the department's research projects.
Research project: "Satellite-based Navigation in Civil Aviation: Performance Evaluation in the Context of Bangladesh". [News Article]

Publication

❖ Rahman, N.S.M.R., **Chowdhury, M.A.A.**, Siraj, AA.N., Rahman, R.M., Karim, R., Alam, K.M.A. (2018). Selection of Most Suitable Secondary School Alternative by Multi-Criteria Fuzzy Analytic Hierarchy Process. Advances in Intelligent Systems and Computing, vol 833. Springer, Cham.
[DOI: 10.1007/978-3-319-98678-4_29] [Paper on Springer] [Slide presentation on YouTube]

❖ Ashraf, S., Kadery, I., **Chowdhury, M.A.A.**, Mahbub, T.Z., Rahman, R.M. (2019). Fruit Image Classification by Convolutional Neural Networks. International Journal of Software Innovation (IJSI), Volume 7, Issue 4, Article 3.
[DOI: 10.4018/IJSI.2019100103] [Paper on IGI-Global]

Personal Projects

❑ **Kon School?** — ASP.NET Core, MongoDB, JavaScript, Node.js [Live on Azure | Live on Heroku]
  [GitHub repo(s): maacpiash/KonSchool, maacpiash/KonSchool-3.0, maacpiash/konschool-mlab-host]
  Docker image: maacpiash/KonSchool]
  Fuzzy-AHP-based recommendation system for secondary schools in Bangladesh.

❑ **Winston** — C, CMake [GitHub repo: maacpiash/Winston]
  A library of basic AI and machine learning algorithms. *WIP*.

❑ **Vardict** — Node.js, TypeScript, Yarn, NPM [GitHub repo: maacpiash/vardict] [NPM: vardict]
  A basic package for parsing labeled CLI arguments in Node.js.

❑ **Dante** — ASP.NET Core (REST API + Razor Pages), Entity Framework Core, Identity Framework
  [GitHub repo: maacpiash/Dante]
  A blog web application, with CRUD and user auth functionalities.

❑ **Bangla News Scraper** — Java, JavaFX, JSoup, Maven [GitHub repo: maacpiash/BanglaNewsScraper]
  A cross-platform desktop app that scrapes news articles from a news portal.

Open Source Contribution

★ sandoche/Darkmode.js — An NPM package for adding a dark-mode toggle to a website.
★ howtocode.com.bd/git.howtocode.com.bd — A website containing a series of tutorials on Git in Bengali.