

# HASSAN MD TAREQ

Developer | Machine Learning & Big Data Enthusiast

December 31, 1990

Bangladesh

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## CAREER PROFILE

As a professional developer and constant learner, I endeavour to keep up with latest technology trends. Spent the last couple of years developing distributed client-server applications. After graduation, started freelancing (upwork.com) as a web developer and later joined a Japanese company. Interested to work in a professionally managed company with responsibility and challenge where I can use my knowledge and skills to provide quality solutions while enhancing my own skills with job satisfaction and scope for personal development and growth.

## SKILLS

**Programming Language:** C#, Swift, Python, JavaScript, Java, Kotlin

**Framework:** .NET Framework, Xamarin.Forms, iOS, Android, Spring Framework

**Database:** MongoDB, Realm, SQL server, Oracle, Postgres, MySQL

**Spoken Language:** English (Fluent), Japanese (N3 Passed), Bengali (Native), Urdu/Hindi (Intermediate)

## PROFESSIONAL EXPERIENCE

**SY SYSTEM, Tokyo, Japan | [ssystem.co.jp](http://ssystem.co.jp)**

*Developer | 2016 – Present*

### □ GPS (子供) 見守り iOS Application, December 2019 | current

- Implementing Google map features (Routes, Markers, Camera, etc.) using Google Map iOS SDK
- Encoding and decoding self-delimited Opus audio using libopus C library
- Implementing voice messaging using MessageKit
- Implementing push notification feature using Firebase iOS SDK
- Creating custom components

*Used Technologies:* Google Map iOS SDK, libopus C library, Firebase iOS SDK, MessageKit, Xcode, Git

□ **Python Genome Analysis, October 2019 | 2 months**

- Analyzing Genome (RNA & DNA) data using python scripts
- Integrating R module into analysis pipeline
- Writing, packaging and distributing pip installable Python library
- Creating data analysis workflow using *Jupyter Notebook*

*Used Technologies: Python3, PyCharm, Jupyter Notebook, Sphinx*

□ **So-net Mailcenter, April 2019 | 6 months**

- Developing API services (microservices) and web apps
- CI/CD using Jenkins
- Implementing Authentication and Authorization
- Writing ORM queries in the data access layer
- Integration testing of data repositories
- Unit testing

*Used Technologies: ASP.Net MVC, Entity Framework, xUnit, Java EE, Arquillian, TestNG, Lombok, Git*

□ **Two Choice XF Xamarin.Forms App (基本情報試験の練習アプリ), February 2019 | 2 months**

- Architecting and developing cross-platform mobile app using Xamarin.Forms
- Implementing MVVM pattern using Prism.Forms
- Unit Testing using XUnit
- Structured Logging using Serilog
- Automated testing using AutoFixture and AutoMoq

*Used Technologies: Xamarin.Forms, Prism.Forms, Visual Studio, Git, XUnit, Serilog, AutoFixture, AutoMoq*

□ **住所緯度・経度抽出 (Address latitude-longitude extraction) UWP App, January 2019 | 1 month**

- Implementing MVVM Using Prism Framework
- Consuming Google Map Geo-coding API (RestSharp, Newtonsoft.Json)
- Reading and analyzing company profiles to extract address
- Fetching map co-ordinate (Lat, Long) from company address
- Exporting company profile details to CSV file (CsvHelper library)
- Structured Logging using Serilog
- Unit Testing using XUnit

*Used Technologies: UWP, Visual Studio, RestSharp, Newtonsoft.Json, Git, XUnit, Serilog, Google Map API*

□ **CCPS API Service, July 2018 | 6 months**

- Architecting and developing Spring Boot Web Application (war deployment)
- Spring security authentication and authorization
- Consuming blockchain API (Retrofit, Jackson)
- Using Spring data MongoDB (MongoRepository, MongoTemplate)
- Logging (slf4j, LogBack)
- Testing (JUnit, Spring Boot Test)

*Used Technologies: Spring Boot, Spring Security, MongoDB, Retrofit, LogBack, Jackson, JUnit, Git, Lombok*

□ **CCPS Web App, January 2018 | 6 months**

- Architecting and developing Spring Boot Web Application (war deployment)
- Setting up Nexus server for offline maven repositories
- Consuming blockchain API (Retrofit, Jackson)
- Designing front end (Bootstrap, Select2.js)
- Testing (JUnit, Spring Boot Test)

*Used Technologies: Spring Boot, Thymeleaf, Nexus, Bootstrap, Lombok, Junit, LogBack, Git*

□ **FieldPlus iOS App In-house deployment, October 2017 | 2 months**

- Creating a CSR (Certificate Signing Request) file
- Setting up In-House App provisioning profile in Enterprise Developer Program account
- Installing In-House & Ad Hoc Certificate to the development MacBook Pro
- Signing iOS app for In-House & Ad Hoc distribution
- In-house app distribution & deployment for testing

*Used Technologies: Swift, Xcode, Mac OS X*

□ **CCPS Wallet Application, January 2017 | 7 months**

- Designing and developing android application
- Consuming wallet API from blockchain server (Retrofit, GSON)
- Implementing QR scan quick pay system to the android app
- Setting up SSO server using OpenAM
- Implementing OAuth 2.0 login
- Creating custom OAuth 2.0 android library for internal use
- Mocking API using Google Fusion table
- Testing (JUnit, Espresso)

*Used Technologies: Java, Kotlin, Android, Retrofit, GSON, Git, OpenAM, OAuth 2.0, Google Fusion Table*

#### □ Takashimaya GaishouWeb Android App, September 2016 | 3 months

- Renovating existing android app (upgrading version, cleaning up deprecated code)
- Migrating build system from eclipse-ADT to android studio Gradle
- Adding new features
- Implementing OAuth 2.0 Login by using Facebook SDK
- Consuming REST API (Retrofit, GSON)

*Used Technologies: Java, Android, Retrofit, GSON, Facebook SDK, SVN, OAuth 2.0*

#### □ Bancarella Café Order Management System, March 2016 | 6 months

- Developing android application on client side (creating custom component, implementing features not available in standard SDK)
- Automated testing (Robolectric / Espresso)
- API programming on server side (architecting and implementation)
- Maintaining CentOS Linux server
- Installing and setting up PostgreSQL database on CentOS
- PHP backend for order and stock monitoring

*Used Technologies: Java, PHP, PostgreSQL, Android, Retrofit, GSON, CentOS, SVN*

#### Upwork Global Inc. | [upwork.com](https://www.upwork.com)

*Web Developer | Freelancer, March 2012 to December 2015*

- Helped clients to establish online business by developing SEO friendly e-commerce sites
- Ensured secured payments by integrating payment gateways (PayPal)
- Designing woo-commerce sites
- Kept client's business up and running by maintaining their sites via cPanel

## EDUCATION

- Bachelor of Engineering | Khulna University of Engineering & Technology | November 2013
  - Bachelor of Engineering with Honors | CGPA 3.20 (out of 4.00)
  - Concentration: Computer Aided Design
  - Minor: Programming and Embedded Systems
- Higher Secondary School Certificate | Dhaka Board, Bangladesh | 2008 | GPA 5.0 (out of 5.0)
- Secondary School Certificate | Jessore Board, Bangladesh | 2006 | GPA 5.0 (out of 5.0)

## **COURSES**

- Pluralsight paid courses on .NET, Android & iOS ([app.pluralsight.com/profile/console041](https://app.pluralsight.com/profile/console041))
- Udemy Swift Course ([udemy.com/user/md-tareq-hassan](https://udemy.com/user/md-tareq-hassan))
- AutoCAD
- Arduino

## **PUBLICATIONS & PATENTS**

### **Design and Construction of a Digital Viscometer**

- Publication: ICMIEE-PI-140403
- Patent: Digital Rotational Viscometer

Rotational viscometer is type of viscometer where fluid viscosity is calculated by measuring resistance of a rotational drum immersed into the fluid.

## **HONORS & AWARDS**

- Scholarship | Jessore Education Board, Bangladesh | 2006
- Scholarship | Dhaka Education Board, Bangladesh | 2008
- Excellence Award | Janata Co-operative Society Ltd., Kushtia, Bangladesh | 2006

## **INTERESTS & EXTRA INFORMATION**

- Cyber games, Blogging and Vlogging ([facebook.com/alienintokyo](https://facebook.com/alienintokyo))
- Presentations at meetups
- Help people to learn Programming and English