Mohammad Merajul Islam Molla *Tokyo, Japan*

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Summary

About 11 years of industry and academic experience working with diverse technologies ranging from low-level system software to mobile/web applications, project management, company strategy & policy making, along with new business development and introducing new technologies to meet dynamic nature of tech industry.

Have experience working in multiple countries - USA, Japan, India, South Korea and with clients from different countries - USA, South Korea, Japan, and Australia. Good verbal and written communication skills and comfortable working with colleagues and clients from diverse culture.

INTERESTS: New Technology R&D, Software Architecture, Project Management, Mobile Application Development, Server-side Programming, Software Quality Assurance, Embedded Systems, Recruitment & Team Building

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Experience

Application Architect (Web Technology), Rakuten Inc, Tokyo, Japan *Jun 2018 - Present*
- Working as Technical Leader of Event Management Platform (EMP) Web Application (Spring Boot, Angular Js, jBPM, Batch, etc).
- Designing architecture of EMP based on Microservices (Spring Cloud, Spring Cloud Stream, Spring Cloud Contracts) and improving current monolith architecture.
- Interviewing candidates, team building, and traininig members.

CTO (Mobile Technology), Monstar Lab Bangladesh, Dhaka, BD *Jan 2017 - Oct 2017*
- Supervised Mobile (iOS, Android), Infrastructure, and QA Teams.
- Supervised projects: Earthcar (http://www.earthcar.co.jp) Taxi app (Android) - Uber like taxi booking app. Conducted R&D for iOS app.
- Conducted regular trainings, tech talks, and internal tech sessions for high performance team building.
- Was highly involved in recruitment, project estimation, employee evaluation, and company strategy determination.

Senior Architect (Mobile Technology), Monstar Lab Bangladesh, Dhaka, BD *May 2016 - Dec 2016*
- Built and supervised Mobile (iOS, Android) teams from scratch.
- Worked as Tech Lead and Project Manager for mobile projects (iOS, Android).
- Supervised projects: A2MILKBAR departmental store management app (iOS, Android, PHP/Node.js), Askul (http://www.askul.co.jp) - E-commerce App (iOS, Android).

Chief Engineer (Mobile SW), Samsung R&D Institute Bangladesh, Dhaka, BD *Mar 2014 - May 2016*
- Worked as Tech Lead of Samsung Gear S and Gear Fit Manager applications and managed 20+ team members.
- Supervised multiple internal projects for iOS, Android and Tizen platforms - Log Analyzer, Emergency Service, TizenFlip, Samsung Guardian App, etc.
- Managed small team of 3 members to contribution to open source project Linaro.

Lead Engineer (Mobile SW), Samsung R&D Institute Bangladesh, Dhaka, BD *May 2012 - Mar 2014*
- Worked as Team Lead of Call and Driver Teams of Feature Phone Mobile Commercilisation division and managed around 10+ team members.
- Worked as Tech Lead of Qshare (Quick Share) project on Android platform.

System SW Engineer (MAC OS Graphics Driver Team, NVIDIA, CA, USA *Jan 2008 - Aug 2011*
- Worked on various components of Display Drivers and core RM Software (Hotplug Architecture, Display Port, Mobile PCI Express Module (MXM), Interrupt Handling, DVI Port, HDCP Protocol, VBIOS, etc).
- Implemented in C and x86 assembly.

MTS Intern (CPD, VMware ESX Server Team), VMware, CA, USA *May 2007 - Aug 2007*
- Developed Kernel Crash Dump tool for VMware ESX Server.
- Implemented in C and bash script.

MTS Intern (CPD, VMware ESX Server Team), VMware Inc, CA, USA   *May 2006 - Aug 2006*
- Developed Filesystem Debugger for VMware ESX Server.
- Implemented in C and bash script

Education

Marquette University, MS in Computing   *Dec 2007*
- CGPA: 4.00/4.00
- Final Project: Implementation of device driver for Broadcom?s BCM4713 Ethernet card on Linksys WRT54GL router and integrating it with Xinu Kernel.

BUET, BS in CSE   *Nov 2004*
- CGPA: 3.92/4.00
- Thesis: Study of Various Popular Network Simulators and Case Studies using NS-2, Commonly Used Open Source Network Research Simulator, to Simulate Wired and Wireless Networks.

Technical Skills

Programming Languages: Swift • Elixir • Java • Kotlin • Ruby • Objective-C • C • C++ • Assembly(x86, MIPS)
Mobile Platforms: iOS • Android
Mobile Architecture Patterns: MVC • MVP • VIP • RxVIP
Mobile Frameworks/Tools: RxSwift • ReSwift • RxJava • Reductor • Alamofire • Retrofit 2 • Gilde • Picasso • AlamofireImage • KingFisher • Firebase • Dagger 2 • ARKit • CoreML • Google Analytics
Web Frameworks (Backend): Phoenix • Ruby on Rails • Spring Boot • Spring Cloud
Web Frameworks (Frontend): React • Angular • Phoenix LiveView
APM Tools: Prometheus • Scout • AppSignal • New Relic
Quality Assurance: Cucumber • Calabash • XCTest • ExUnit • MiniTest
Infrastructure: Docker • Kubernetes
Database: Mysql • Sqlite • Realm • MongoDB • Redis • Elastic Serach
Project Management: JIRA • Redmine • Trello
Version Control: Git • Perforce • Subversion
Real-time Services: Pusher • PubNub
Miscelleneous: GraphQL • Protobuf • RabbitMQ • Kafka • Apache JackRabbit • Big Data (Apache Hadoop, MapReduce, Sqoop, Hive, HBase) • Machine Learning (Scikit-learn, NumPy, Pandas) • Deep Learning (Keras)

Past Professional Projects

Earthcar Taxi App (iOS, Android)   *2017*
Uber like Taxi app for Earthcar (http://www.earthcar.co.jp) Japan. Three different applications - User App (Android, Smartphone), User App (iOS, Smartphone) and Driver App (Android, Tab) along with backend APIs/services and front-end Admin panel.
- Worked as Tech Lead and Project Manager for mobile apps.
- Conducted R&D, designed app architecture, and guided engineers to implement features.
- Derived project estimation from client requirements, broke down features into sprints, worked with QA Engineers to define test specifications.
- Conducted code review and managed branch/release policies.
- Collaborated with backend engineers for smooth integration of APIs/services with mobile apps.

Askul E-commerce App (iOS, Android)   *2017*
E-commerce applications developed for Askul (http://www.askul.co.jp) Japan. Two different applications - one for iOS and another for Android
- Worked as Tech Lead and Project Manager for the project.
- Conducted R&D, designed app architecture, and guided developers to implement features.
- Conducted code review and managed branch/release policies.
- Backend APIs/services developed using Java (Spring Boot) by 3rd party in Japan.
- Conducted regular meeting and status reporting with Japan side project stakeholders.

A2MILKBAR App (iOS, Android)   *2016*

Departmental store management app developed for Australian client. Two different applications - one for iOS and another for Android platform along with backend APIs/services and front-end Admin panel.

- Worked as Tech Lead and Project Manager for the project.
- Conducted R&D, designed app architecture, and guided developers to implement features.
- Conducted code review and managed branch/release policies.
- Supervised backend APIs/services development using PHP and Node.js.

Samsung Gear S and Samsung Gear Fit Apps (iOS)   *2015-2016*

Developed commercial versions of Samsung Gear S and Gear Fit Apps to work with Tizen powered Gear S2 and Gear Fit 2.

- Developed in collaboration with Samsung HQ (South Korea).
- Conducted R&D, designed and developed Basic Accessory Protocol (BAP) on top of Bluetooth Low Energy (BLE). The protocol supports - file transfer with pause/resume/cancel, CRC and retransmission, QoS
- Designed and developed Webproxy module to support multiple Gear apps, such as - Weather, S-Voice, Voice Memo, etc.
- Notifications using Apple Notification Center Service, along with notification settings, block notifications.
- Samsung Gear S - https://itunes.apple.com/us/app/samsung-gear-s/id1117310635?mt=8
- Samsung Gear Fit - https://itunes.apple.com/us/app/samsung-gear-fit/id1117312500?mt=8

Open Source Contribution

Linaro Project - http://www.linaro.org   *2015*

Led team of 3 engineers for making contribution to Open Source project (Linaro) - open source software for ARM SoCs and made decent contribution to their power management tools - powertop, powerdebug, idlestat, and pm-qa.

Xinu Project - https://github.com/xinu-os/xinu   *2006-2007*

Made significant contribution to MIPS port of Xinu kernel - exception and interrup handler, timer, ethernet driver, etc.

Technical Articles

My technical articles, specially on Elixir/Phoenix and Machine Learning can be viewed and read at - https://medium.com/@merajulislam

Achievement/Awards

2017	Ranked 2nd in Monstar Lab ISUCON Tech Olympics (Web App Performance Tuning contest)
2017	Promoted as CTO of Mobile Technology Division
2015	Won Employee of the Year Award (SRBD)
2015	Won Iconic Team award for iOS Gear Manager Team for 2H of Y2015 (SRBD)
2014	Nominated as Employee of the Year (SRBD)
2014	Iconic Team award for Android Development Team for 2H of Y2014 (SRBD)
2013	Achived Double promotion (promoted from Lead Engineer to Chief Engineer, SRBD)
2006-2007	Won Graduate Assistantship (Marquette University)
1999-2003	Won Dean's List Award (BUET)
1999-2003	Won University Merit Scholarship (BUET)
1996-2003	Won Board Merit Scholarship (Bangladesh Government)