

S. M. Faisal Rahman

Software Engineer

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Summary

Aspiring software engineer offering *3+ years of professional experience* building customer focused *web & mobile apps* and leading sub-teams. Excited to work with distributed algorithms & design scalable products hands on. Tech I've worked with:

- | | | |
|---|--|---|
| - Java (Android & J2EE, Spring boot) | - C/C++ (Clang, GCC) | - JS (React, Vue, JQuery, Node, Express) |
| - Swift (iOS) | - Python (OpenCV, Numpy, Pandas, Keras) | - HTML, CSS |
| - PHP (Laravel) | - Cache (Memcached, Redis) | - Version control (Git, Gerrit, p4v) |
| - DBMS (MySQL, Mongo, Oracle, Cassandra) | - Message Queue (RabbitMQ, Kafka) | - Virtualization (Docker, Vagrant, VirtualBox) |

Industry Experience

Software Development Engineer

March 2021

[Amazon \(AWS S3\), Cambridge, UK](#)

- Working to sustainably scale S3 Event bus to support a TPS of billions and onboard new use cases.

Full-stack Software Developer

February 2020 - February 2021

[European Bioinformatics Institute \(EMBL- EBI\), Cambridge, UK](#)

- Worked on Europe PMC ([Europe PubMed Central - europepmc.org](#))
 - Took ownership of system wide ORCID integrations (Java, Vue)
 - Solo introduced new article claim feature (Vue, Java)
 - Took over development & maintenance of THOR project (www.ebi.ac.uk/europepmc/thor)
- Solo implemented article storage microservice (Java, RabbitMQ)
- Contributed to complete reimplement of UI (Vue).
- Introduced smart worker thread scaling in data consumer microservices to work regardless of underlying VM features (Java)

Software Engineer

April 2018 - December 2019

[Samsung R&D Institute Bangladesh \(SRBD\), Dhaka, Bangladesh](#)

- Awarded **Icon Engineer Certificate**, Achieved **SWC Professional Certificate** for programming competency
- Social media app - iOS (Swift):**
 - Took ownership of feed and post modules
 - Flexible SDK architecture design for Samsung Cloud interfacing
 - Periodic code reviews & design reviews (100% of codebase)
 - 80% unit test coverage in SDK
- Arctecture (drawing app) - Android (Java, C++):**
 - Retained a rating 4.3 with 1M+ users
 - Written a custom build system for Native C++ codebase
 - Adapted complete legacy GNU C++ codebase for Clang
 - Continuous improvement of C++ POSIX thread management
- Designed content Feed engine to
- Optimized Gif player (not present in iOS natively)
- App cache design & implementation
- Coded about 30% of the complete codebase
- Designed & implemented Permission Controller module
- Ported legacy code to Android Studio
- Optimized C++ codebase to introduce ARM64 compilation
- Developed internal tools for proper dependency updates

Remote Software Engineer

November 2017 - April 2018

[Far-East IT Solutions Limited, Dhaka, Bangladesh](#)

- Flight booking system - Laravel backend (Designed 100% of the product):**
 - Designed REST API backend following MVC design pattern from scratch
 - Designed & deployed full MySQL database
- Flight booking system - ReactJS admin panel (Coded 50% & Released):**
 - Implemented Client side search & filter
 - Bulk SMS and email dashboard
- Flight booking system - ReactJS user site (Released & handled 30% issues):**
 - User verification
- Designed search cache (Redis)
- Docker orchestration (unreleased)
- Bulk SMS/Email message queue
- Integrated payment gateway (BKash)
- Landing page

Software Engineering Intern

December 2016 - January 2017

[Solution Art Ltd, Dhaka, Bangladesh](#)

- Bangladesh Coast Guard eDocument management system - PHP:**
 - Requirement Analysis & Proposed system design
- Proposed detailed UX flow & Infrastructure requirements.

Education

Bachelor of science, Computer Science and Engineering

2014 - 2018

[Military Institute of Science and Technology, Dhaka](#)

- Club affiliations:** MIST Robotics Club, MIST Computer Club; *increased 30% budget savings automating event management and payment tracking gaining much smoother user experience. OpenCV based image processing for initial screening of receipts.*
- Thesis:** A proposed transport layer security mechanism for IoT multicast protocol suite and simulated performance comparison