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Dhaka, Bangladesh

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**Fahim Ahmed**

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Sr. Software Engineer

Summary

Aspiring Sr. Software Engineer offering 3+ years of professional experience, currently working in solution architecture & back-end application development that serve 50M+ users on a daily basis. Interested in designing new systems, architectures, and building scalable products hands-on.

Industry Experience

January, 2021 - Present

Senior Software Engineer (Sr. Back-End Developer)

[BKash, Dhaka, Bangladesh](https://en.wikipedia.org/wiki/BKash)

Largest Mobile-Financial-Service in Bangladesh with 56M+ registered subscribers and over $300M in annual turnovers; which was declared as a Fortune Top-50 company ([Change the World, 2017](https://fortune.com/change-the-world/2017/bkash/)).

* bKash-Shop

An e-commerce platform to host online stores. Provides easy automated setup of a full-featured online store for a merchant with integrated bKash-Payment-Gateway after online verification of national-id, bKash-wallet & email-address.

* Progressed through the entire lifecycle of software development where activities ranged from heavily contributing to ideas & designing high-level architectures to detailed design & implementation of business functionality.
* Designed & Developed REST-based micro-services using Spring Boot; following Controller, Service, Repository pattern.
* Leveraged Spring WebFlux framework to achieve reactiveness, having proper concept of event-loop, reactor-core, reactive-programming, and java-concurrency.
* Fine-tuned the solutions with the proper application of advanced algorithms and data-structures in core-implementations. This resulted in a 35% performance increase compared to the initial implementation.
* Took ownership of back-end codebase, with coding around 50% of it by self.
* Periodic code-review of 100% code-base (Backend).
* End-to-end development support of the application till the final rollout.
* bKash-Payment-Gateway

An integrative secure payment API that lets merchants collect online payments from bKash customers. <https://developer.bka.sh/reference>

* Refactored existing architecture of a high-traffic-backend-application, that serves over 50M+ users on a daily basis & modified source code accordingly. This resulted in a 20%+ performance improvement and 30%+ cost reduction.
* **Tech Stack**
* Java 11 (OOP, Collections, Streams, Functional Interfaces, Concurrency)
* Various 3rd Party Java libraries [Apache Commons Lang, GSON, Lettuce (Redis), etc.]
* Spring Boot, Spring WebFlux, Spring-Data, Spring Boot Actuator, etc.
* Docker, Docker-Compose
* AWS Services
  + EC2, DynamoDb, ElastiCache (Redis), SQS, SES, Lambda, API-Gateway, Cloud-Front, SNS, S3
* Version Control: Git, Github
* Project Management: Jira

March, 2020 - December, 2020

Software Engineer

Senior Software Engineer

[Samsung R&D](https://research.samsung.com/) Institute, Dhaka, Bangladesh

April, 2018 – February, 2020

* Awarded Icon Engineer of The Month (May, June 2019)
* Awarded Team of The Year, 2018 (as member of team iOS Gear 360 Manager)
* Achieved Certification from Samsung Electronics for passing Software Competency level of Professional. (June, 2018)  
  (Globally 2ndMost Prestigious Competency in Samsung).
* Worked onsite in Samsung HQ, South Korea & Samsung Research Bangalore, India for 6+ months (R&D Collaboration)
* [FirstNet (U.S.A) Push-To-Talk](https://www.firstnet.com/mission-critical/firstnet-push-to-talk.html)

A “Mission Critical” emergency communication solution for FirstNet (USA) based on the public safety standards set by the Third Generation Partnership Project (3GPP). Provides various features for emergency communication including Audio-Video Communication, Emergency Alert & Positioning, etc. in various platform including iOS & android.

* Took ownership of native iOS Audio & Video Engine Module. Coded about 40% of Audio, 65% of Video Engine.
* Hands on experienced with several video compression algorithms (i.e. H.264, H.265, etc.) and optimizations.
* The developed Audio-Video engine achieves higher quality in lower bandwidth compared to market standards.
* Feature development in other modules. Such as-
* Remote work with SEA (U.S.A) & SR (S.Korea) for project development & deployment.
* Periodic Code Reviews of 100% Codebase.
* Arrangement of in-team knowledge transfer sessions for complete team synchronization regarding all updates.
* Developed in: C++, Objective-C++ (Framework Development); Swift (Application Development).
* Frameworks**: AVFoundation, AudioToolbox, VideoToolbox**, METAL, CURL, reSIProcate, OpenSSL, PushKit, CallKit, etc.
* Database: SQLite (Application Side)
* Version Control: Gerrit
* Network core for secured SIP & HTTP Communication
* Call Manager Module.
* VoIP Push (APNS) Handling
* Various Service Subscription Module.

* [Gear 360 Camera Manager (iOS)](https://apps.apple.com/us/app/samsung-gear-360/id1214791825)
* Developed Image & Video Processing & Rendering Feature using Apple’s METAL GPU Library.
* Designed algorithms for image processing for Panorama, Infinite-Panorama, Fish-Eye, and 360 Views.
* Developed in VIPER architectural pattern, following proper object-oriented principals.
* Competitive Programming Highlights:
  + Ranked 30th in [ACM ICPC Asia Dhaka Regional 2015](https://algo.codemarshal.org/contests/icpcdhaka2015/standings).  
    (MIST\_Beginners, Out of 120+ teams.)
  + Personally achieved [above 97% percentile in HackerRank](https://www.hackerrank.com/fahim_ahmed).
  + Problem Setter & Judge in [Samsung Code Contest 2018](https://research.samsung.com/news/Code-Contest-2018)
* CGPA: 3.36 (on a scale of 4.00)
* Recognitions:
  + Runner Up – App Development,   
    IUT ICT FEST, 2017
  + MIST Best Coder of The Year 2015, 2014

[Military Institute Of Science & Technology (MIST), Dhaka, Bangladesh](https://en.wikipedia.org/wiki/Military_Institute_of_Science_and_Technology)

Education

2014-2018

Bachelor of Science, Computer Science & Engineering