

Farhan Ar Rafi

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Website: farhanarrafi.com

Programming tech: Java (Android, AOSP), Swift (iOS), Python

Professional Summary

- 7+ years of professional experience in Engineering Mobile applications in Android and iOS
- Developed 5+ solutions used by millions of users, mainly in Japan and China, the US and Europe
- Earned Best Employee Award (BJIT Limited) in 2020 for engineering excellence
- Qualified as 1 out of 6 in ITPEC ITEE Fundamental Engineering Exam in 2015
- Achieved Vice Chancellor's Award in 2016 for best undergraduate thesis (on Bengali Geonames)

Professional Experience

University of North Texas - Graduate Teaching Assistant

Aug 2023 - present

- Teaching and Assisting students in and outside of class
- Preparing tutorials, checking assignments, projects and reports

BJIT Limited - Software Engineer - iOS

Mar 2022 - Jan 2023

- Developing features, bug fixes and performing developer testing of features
- Creating developer docs (BAT, CRC, Impact Analysis, Bug Report)

BJIT Limited - Senior Software Engineer - Android, AOSP

Nov 2018 - Jan 2023

- Performing code review and solution design
- Performed Code Refactoring to reduce battery consumption by 2-5% in PocketaTalk devices
- Managed a 3-member team to design OTA updates and modify SELinux in PocketaTalk devices
- Trained 5 team members in Android and Android Open Source Project (AOSP)

BJIT Limited - Software Engineer

Aug 2015 - Oct 2018

- Engineered 2 security and performance apps for Android Phones and Android TV (STB)
- Documented software specifications and tutorials in MS Word, Excel, and PowerPoint
- Performed research and development in the Internet of Things (IoT)

Eminence Associates for Social Development - Intern

Mar 2015 - Jul 2015

- Solved IT issues and provided networking support to 20+ people in the office
- Managed a four people team to provide logistics and IT support to 200+ people in multiple seminar halls at the 12th International Conference on Urban Health (ICUH 2015)

Awards

- Best Employee Award, BJIT Limited, 2020
- Vice Chancellor's Award for Best Thesis, American International University-Bangladesh, 2016

Projects

PocketaTalk - Android Software and Firmware for Custom Device

<https://www.pocketaTalk.com>

- Implemented and fixed bugs in Audio and Image processing for real-time translation
- Implemented features for Mobile Network, Wi-Fi and Bluetooth settings
- Contributed to the engineering of firmware changes for Android-based embedded devices
- Used technologies - Android Open Source Project (AOSP), Android, Java, XML

PocketaTalk - iOS Application

[*PocketaTalk iOS app on the Apple Store*](#)

- Worked on image and audio processing;

- Solved bugs and prepared developer documents
- Used technologies - Swift, iOS, UIKit

Super Security - Antivirus Software for Android Phone and TV (STB) [Super Security on Playstore](#)

- Security application for scanning viruses, malware and Potentially Unwanted Applications
- Contributed to the development (from scratch) and maintenance of the project
- Used technologies - Android, Java, XML

Superspeed - Phone Optimization Software for Android Phone [SuperSpeed App on Playstore](#)

- Application for clearing memory, managing apps and optimising phone performance
- Contributed to the development and maintenance of the project
- Used technologies - Android, Java, XML

Pi-Controller Android App in Kotlin <https://git.io/J1bId>

- Developed towards the completion of MSc research project
- Provides an interface in Android for monitoring and controlling electronic appliances
- Used technologies - Kotlin, Android, Firebase, Node.js

Pi-Controller Raspberry Pi Node.js Server <https://git.io/J1bLY>

- Developed towards the completion of MSc research project
- Developed Raspberry Pi as a controller for home appliances and electronics
- Used technologies - JavaScript, Firebase, Node.js

Bengali Geonames Software in PHP and Java <https://git.io/J1bTX>

- Developed REST APIs to store and retrieve geographical location data.
- Used technologies - PHP, CodeIgniter, MySQL, Java, Spring Boot

Education

- PhD, Computer Science and Engineering, University of North Texas, (expected) 2028
- M.S. Computer Science, Jahangirnagar University, 2018
- B.S. Computer Science and Engineering, American International University-Bangladesh, 2016

Skills

- Problem-solving - able to solve complex problems and develop out-of-the-box solutions
- Teamwork - able to work as part of the team, teach team members on the job and lead when necessary
- Proficient in office and image editing tools (Word, Excel, Powerpoint, Photoshop/Gimp)
- Programming Languages - Java, Swift, Python, Octave, PHP, JavaScript
- Other technologies: HTML, CSS, Bootstrap CSS
- Development tools - Android Studio, Xcode, Jupyter Notebooks, IntelliJ IDEA, VSCode
- Frameworks - Android, AOSP, iOS, CodeIgniter, Laravel, Flask, Node.js
- Communication Languages: English - C1 level (TOEFL), German - A1 level (Goethe Institute)

Professional Certification

- Machine Learning, Coursera, 2020, obtained a 94.9% grade.
- Deep Learning Specialization, Coursera, 2020, obtained 98% grade (average of 5 courses)
- Web Application Engineering (Python, Jinja and WSGI)(CS253) - Udacity, 2013
- Natural Language Processing Specialization, Coursera (In progress)

Hobbies

- Cycling and city hiking- I ride my road bike/walk through the city 3-4 days a week.
- Learning, watching movies, sewing clothes and tinkering with computers