

# Qazi Fahim Farhan

## Personal Information

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## Education

2015–2019	<b>B.Sc in Computer Science and Engineering(CSE).</b> Bangladesh University of Engineering and Technology	CGPA	2.73/4.00
2014	<b>H.S.C.</b> Notre Dame College, Dhaka	CGPA	5.00/5.00
2012	<b>S.S.C.</b> Govt. Laboratory High School, Dhaka	GPA	5.00/5.00

## Experience

2019–present **Software Engineer(Android)**, *Ridmik Labs*, Dhaka,  
Currently working as an Android developer. Major contributions:  
*RidmikChat*: A social media and chat application  
*Ridmik News*: A news app that aggregates and displays news.  
*Ridmik Dictionary*: An offline dictionary android app.  
*Ridmik AccountKit*: An android login management library to handle login inside different Ridmik apps. .

## Skills

Programming Languages C, C++, Java, Kotlin, Python, SQL,  $\LaTeX$ , Flex, Bison, PHP, Javascript, C#, Bash, Assembly 8086, MIPS  
Programming Frameworks Django, JavaFx, Android, Gradle, OpenGL  
Operating System Debian 11 (testing), Linux Mint 20.3, Windows 11  
Databases Oracle, MySQL, PostgreSQL, Orientdb, SQLite  
Others Terminal, Git, Docker, Vim, Arduino Uno, Raspberry Pi, ATmega32

## Online Judge/Contests

Codeforces username: fahimfarhan, Maximum Rating 1370 (profile link)  
CodeChef username: fahimfarhan, Maximum Rating 1589 (profile link)

Google Kick Start 2019 username: fahimfarhan , highest position 1866 (participation certificate link)  
Facebook Hacker Cup Qualification round ranking 1805

## Thesis

Title *Building Semantic Knowledge Graph using Twitter Data*  
Supervisor Dr. Muhammad Mashroor Ali  
Description In this thesis, we investigated how to build knowledge graph from a very limited data source like Tweets. As the research progressed, we faced some challenges such as connecting external knowledge base, choosing tentative candidates and disambiguating urls using various heuristic functions. We have also used NLP tools (GATE developer) to analyze tweets and write necessary codes. (github link)

## Major Projects

RidmikChat  
Language Kotlin, Java  
Framework Android  
Description A social media and chat application. I have worked on user profile page, news feed, image editor, video editor, fancy animations, etc features. (Google Play Store link)

Ridmik Dictionary  
Language Kotlin, Java  
Framework Android  
Description A dictionary application. I have implemented searching words, displaying word categories, splash cards, study page, MCQ, showing advertisements etc features. (Google Play Store link)

Ridmik News  
Language Kotlin, Java  
Framework Android  
Description A news application that aggregates, and displays news. I have worked on the app settings, and displaying advertisements in the news feed. (Google Play Store link)

## Major Academic or Personal Projects

NewsApp  
Language Kotlin, Java  
Framework Android  
Description A simple android news app showing pagination (offline support with network call), MVVM, retrofit, room, picasso, multiple rows in recyclerview, footer/loader etc. (github link)

### SimpleVideoEditor

Language Java  
Framework Android  
Description A video editor written in Model-View-Presenter (MVP) pattern that can crop area, trim duration, apply filter. The crop is my implementation based on image cropping opensource projects since there is hardly any project that clearly explains the crop mechanism. (github link)

### cancer-web-app

Language Python  
Framework Django  
Description A simple cancer patient management system. (github link)

### rubics-cube-solver

Language Assembly 8086  
Description An assembly 8086 code that can solve 2x2x2 rubics cube. (github link)

### Compiler

Language C, C++, Flex, Bison, Assembly 8086  
Description A simple C Compiler that takes a source program, generates tokens, an AST, and generates a corresponding target program in Assembly x86. (github link)

### Database Project

Language Java, OrientDB database  
Description A project to experiment with the features of a NoSQL database named OrientDB using a Twitter dataset. (github link)

### Smart Locker

Language C  
Description A hardware project with ATmega32 microcontroller that uses sensors detect burglar. It also comes with an alarm and a password management system. (github link)

### FileExplorerFx

Language Java, JavaFx  
Description A simple file explorer that can be used to view, navigate through folders, and open files in a computer. Currently works with Windows. (github link)

### Zaxon

Language C, C++  
Description A simple game where the player has to defeat an alien. (github link)

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## References

Dr. Muhammad Masroor Ali

Professor, Department of Computer Science and Engineering, Bangladesh University of Engineering and Technology, Dhaka-1205, Bangladesh

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