



AMIRUL ISLAM AL MAMUN

Competitive Programmer and Backend Developer
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EXPERIENCE

Former Software Engineer, Intern	LEADS Corporation Ltd.	13 Sep 2020 - 10 Dec 2020
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- Department: Enterprise Mobile Apps and Services
- Contributed to Digital Onboarding Verify-ID-ML project, in both Backend Python (Flask + Machine Learning) and Android. Going to live in the South-East Bank, FSIBL Bank, Uttara Bank and some other banks soon.
- Contributing to iLife flutter project for Sandhani Life Insurance and Sunlife Insurance.
- contact: [Md Babul Mirdha](#), Senior Software Architect, Leads Corporation Ltd., babul.mirdha@leads-bd.com

Former Student Tutor	BRAC University	Sep 2019 - Oct 2020
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- Subject: Discrete Mathematics. Worked as Teaching Assistant to help students.
- contact: G.M. Zilani, DCO, Department of CSE, BRAC University, gm.zilani@bracu.ac.bd

Former Problem Setter	Toph Online Judge	Dec 2019 - Feb 2020
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- Problem author and contest moderator, 16th December Programming Contest, 2019 and 5+ more
- contact: Abdullah Matin Khan Zarzis, Former Trainer, BRAC University, zarziskhan@gmail.com

Languages and Technologies

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- Programming Languages - C++, Java, Python, Dart(basic), Kotlin(basic)
 - Operating System - Linux, Windows, Mac OS, Android
 - Database - MySQL, Firebase
 - Frameworks - [Flutter](#), Flask, [Django](#)
 - Tools - VS Code, Atom, Android Studio, PyCharm, IntelliJ IDEA, Eclipse, Jupyter Notebook, Postman
 - Recent Activity - Neural Network, Flutter, Android Development
 - Others - OOP, Version Control, GitHub, Design Pattern, REST-API, IIS, JavaFX, OpenGL, Streamlit etc.

EDUCATION

BSc. in Computer Science	CGPA - 3.66 / 4.00	BRAC University, Dhaka	Jan 2017 - Dec 2020
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- Awarded Full-free (100%) Scholarship.
- Main coursework: Data Structures, Algorithms, Neural Network, Artificial Intelligence, Software Engineering, OOP, Database Systems, Operating Systems, Computer Architecture, Data Communication, Android, Calculus.

HSC in Science	GPA - 5.00 / 5.00	Mohsin College, Chittagong	2015 - 2016
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- Awarded BRAC Medhabikash Scholarship.

SSC in Science	GPA - 5.00 / 5.00	Pekua GMC Institution	2013 - 2014
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- Awarded Government Scholarship (Talentful), many other non-govt. scholarships, Best Debater Awards etc.

VOLUNTEER EXPERIENCE

Programming Mentor	BRAC University ACM Student Chapter	Mar 2018 - Jul 2020
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- Guiding junior contestants by taking various workshops, CSE Bootcamps, programming contests etc.
- contact: Shaily Roy, Lecturer, BRAC University, shaily.roy@bracu.ac.bd

HEAD of Human Resource	Voice of Humanity Foundation	Feb 2020 - Present
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- a government listed NGO in Bangladesh where we are working for the street child, unprivileged people etc.
- contact: Abul Hasan, Founder, Voice of Humanity Foundation, vhbd.org@gmail.com

INTERNSHIP PROJECT

I contributed to 3 major projects during my internship at [LEADS Corporation Ltd.](#) -

- **VerifyID-ML (Digital Onboarding - eKYC)** -
 - technologies: Python Flask, Machine Learning, OpenCV, Tesseract etc.
 - activities:
 - implemented and managed the whole machine learning and python project
 - wrote all backend API, introduced MRZ and improved overall OCR quality from the NID Card for extracting information, face matching, different layers photo validation, after all
 - wrote about **70%** codebase of this project by myself and successfully deployed it on the bank server
 - going to live soon at SEBL, FSIBL, SJIBL, UBL and many more.
- **iLife Project (for Sandhani Life Inc., Sunlife Inc.)** -
 - technologies: Flutter, Rest-API etc.
 - activities:
 - contributed to this flutter app project for digital onboarding, resolved some major bugs
 - added some features, payment gateway integration (bKash, Nagad, SureCash)
 - also worked for improving the overall UI and finally updated to the google play store again.
- **VerifyID-Mobile App (Digital Onboarding - eKYC)** -
 - technologies: Kotlin, XML, Retrofit etc.
 - activities:
 - contributed to the Android project, fixed some major and minor bugs
 - added the important requirements according to the UAT Feedback from Bank
 - worked for improving the overall UI.
 - going to live soon at SEBL, FSIBL, SJIBL, UBL and many more.

UNIVERSITY PROJECT (PERSONAL)

I have many [web](#), [android](#) and [flutter projects](#) in university including -

- **Sorting Algorithm Visualization** (2019) [Desktop App] - technology: Java, JavaFX, FXML, Derby etc.
 - preview: <http://bit.do/sortalgovis>
- **BRACU Student Tutor Management** (2020) [Android App] - technology: Java, XML, Firebase etc.
 - youtube preview: [youtube.com/watch?v=A_Ssx_x9Cyk](https://www.youtube.com/watch?v=A_Ssx_x9Cyk)
- **VH Online Hospital** (2020) [Android App] - technology: Java, XML, Firebase etc.
- **FA Online Shop** (2020) [Web Project] - technology: Django, HTML, CSS, Bootstrap, Sqlite3 etc.
- **Online Voting System** (2019) [Web Project] - technology: PHP, HTML, CSS, Bootstrap etc.

MACHINE LEARNING PROJECT

I worked on 6+ machine learning and deep learning projects including -

- **Sentiment Analysis using Deep Learning** (2020) [team project]
- **New York City Taxi Fare Prediction using Machine Learning** (2020) [team project]
- **Named Entity Recognition using Deep Learning** (2020) [personal project]
- **Machine Learning WebApp using Streamlit** (2020) [personal project] etc.

RESEARCH WORK

We are about to end of our thesis work on 'Intelligent Chatbot using Neural Network' (01/01/2020 - 31/12/2020)

- three parts - Intent Classification, Emotion detection and Dialogue Generation
- technologies - Neural Network (CNN, RNN, Bi-LSTM etc.), ML (Adversarial Learning) etc.
- supervisor - Amitabha Chakrabarty, Associate Professor, BRAC University (amitabha@bracu.ac.bd)
- supervisor - Sudip Kumar Naskar, Associate Professor, Jadavpur University, India (sudip.naskar@gmail.com)

COMPETITIVE PROGRAMMING (ONSITE) (<http://bit.do/amirul-cert>)

I have participated in almost all NCPC & IUPC (about 15+) on behalf on BRAC University since three years-

- **Champion (1st) at BUCC Intra-University Programming Contest, Junior (11/2017)**
 - Contestant, bracu_silkRoad
- **3rd at BUCC Intra-University Programming Contest, Senior (09/2018)**
 - Team Leader and Contestant, SketchUP
- **3rd at BUCC Intra-University Programming Contest, Senior (02/2019)**
 - Team Leader and Contestant, bucc_nahid
- **8th at UITS Inter-University Programming Contest (10/2019)**
 - Team Leader and Contestant, silkRoad
- **12th at INWED Techfest Programming Contest, IUB (06/2019) etc.**
 - Team Leader and Contestant, bracu_silkRoad

COMPETITIVE PROGRAMMING (ONLINE) (<http://bit.do/ststlk>)

Codeforces	Solved problem - 500+	handle - shining_flash
● Participated in 50+ contest, highest position - specialist		
UVa	Solved problem - 140+	handle - shiningflash
LightOJ	Solved problem - 110+	handle - (43638) Amirul Islam
HackerRank	Solved problem - 100+	handle - shiningflash
SPOJ	Solved problem - 60+	handle - amirul_bracu

** For All accepted code: <http://bit.do/ojsol>

PROBLEM SETTING (<http://bit.do/amirul-pros>)

I worked as problem setter at [Toph Online Judge](#) (Toph Username: [shiningflash](#)) -

- problem setter, judge and moderator in 6+ different national and intra-university programming contests, including -
 - 16th December Programming Contest, 2019 [national contest] (platform - toph)
 - BRACU Intra-University Programming Contest, Fall-2019 [Senior + Junior] (platform - toph)
 - BRACU Intra-Girls Programming Contest, Summer-2019 (platform - toph) etc.
- authored a total of 12+ problems including [Answer the queries](#), [National Flag](#) etc.

OTHER CERTIFICATE (<http://bit.do/amirul-cert>)

- **Programming Skill Bootcamp Trainer (2019)**
 - issued by - BRAC University
- **National Collegiate Programming Contest (2018)**
 - issued by - ICPC - International Collegiate Programming Contest
- **Global Problem-Solver - NASA Space Apps Covid-19 Challenge (2020) etc.**
 - issued by - NASA International Space Apps Challenge