



# Sandipon Paul

Love challenges, obsessed with algorithms, passionate learner, focused worker.

## CONTACT:

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## EXPERIENCE

### CCSE Lab, Dhaka — **Researcher:** September 2016 - Present

*The Center for Cognitive Skill Enhancement (CCSE) Lab is a place to learn, develop and research, [ccse.iub.edu.bd](http://ccse.iub.edu.bd). Director: Ali Shihab Sabbir, Email: [asabbir@iub.edu.bd](mailto:asabbir@iub.edu.bd)*

As a researcher, I have been developing working models of automated traffic systems based on image recognition; am also working on a digital signal analysis system of different genre of Bangla folk music. I also learned about Google's Tensor Flow platform, NVIDIA's CUDA Platform and was given a brief training on different development boards like Raspberry Pi.

### Fab Lab IUB, Dhaka — **Tech Guru:** January 2017 - Present

*FabLab is a worldwide community with small-scale workshops offering providing different support for fabrication and recently a new FabLab opened at Independent University Bangladesh (IUB). Project Supervisor: Dr. Mahady Hasan, Email: [mahady@iub.edu.bd](mailto:mahady@iub.edu.bd)*

I was appointed as the Tech Guru. My main responsibilities are communicating with every other lab participants, providing support on machine operation and working on different projects in general. Fundamentally, I provide support for all kinds of tech/software related issues.

### Bangla Folkarch, Dhaka — **Tech and Media Support:** Sept 16 - Present

*Bangla Folk Archive is an initiative to store and preserve Bengali Folk songs along with the culture, [folkarch.iub.edu.bd](http://folkarch.iub.edu.bd). Project Technical Coordinator: Ali Shihab Sabbir, Email: [asabbir@iub.edu.bd](mailto:asabbir@iub.edu.bd)*

I am responsible for providing technological support such as maintaining song collections, editing videos and collecting songs with their cultural info. I have redesigned the entire system to provide a more comprehensive solution and provide a genre detection system with the help of collected data.

## PROJECTS

### National500Apps (Android Project): May 2015 - August 2015

Project Supervisor: Moniruzzaman Khan Ripon, Email: [ripondhkbd@gmail.com](mailto:ripondhkbd@gmail.com)

My role: As an Android developer, I implemented 25 applications. I created the designs, database and all of the app functionalities (network requests, Json handling, caching, map integration).

Project link: [National500apps.psandipon.info](http://National500apps.psandipon.info)

### Website Development & Support: October 2016 - Present

My role: As a web developer, I worked on different independent projects. I mainly work on web functionalities, designs, security and general website maintenance. Project link: [ccse.iub.edu.bd](http://ccse.iub.edu.bd), [folkarch.iub.edu.bd](http://folkarch.iub.edu.bd)

## SKILLS

C/C++, **Java**, JavaScript, HTML, CSS, **PHP**, XML, SQL, MySQL, **Python**, BASH, Bootstrap, **WordPress**, AngularJS, **jQuery**, Polymer, **MS Office**, **Adobe Suite**, **Unix**.

## MY SPECIALITIES

Strong Math/Physics Background  
Strong OOP concepts  
Algorithm Proficiency  
Good design sense  
Quick learner

## LINKS

[fb.psandipon.info](http://fb.psandipon.info)  
[twitter.psandipon.info](https://twitter.com/psandipon)  
[linkedin.psandipon.info](https://www.linkedin.com/in/psandipon)  
[uhunt.psandipon.info](http://uhunt.psandipon.info)  
[github.psandipon.info](https://github.com/psandipon)  
[ccse.psandipon.info](http://ccse.psandipon.info)  
[typeracer.psandipon.info](http://typeracer.psandipon.info)

## EDUCATION

### BRAC University, Dhaka — **B. S. Computer Science**

January 2013 - April 2017

#### Special Subjects:

Tensor Analysis	4
Group Theory	4
Mathematical Modelling	4
Theory of Numbers	4
Mathematical physics	3.7

#### General Subjects:

Programming Language I	4
Programming Language II	4
Data Structures	4
Algorithms	3.7
Circuits and Electronics	4
Digital Logic Design	4
Object Oriented Programming	3.7
Automata and Computability	3.7
Compiler Design	4
-More in transcript.	

## UNDERGRADUATE THESIS

### Quantum Algorithms and Error Correction

Supervisor:

**Dr. Mahbub Alam Majumdar**