

# ROHIT UPADHYA

✉ rohitupadhyia18@gmail.com 📞 +91-8134082213/+91-9615422513 🌐 nocturnalnocturnal

## EDUCATION

### NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Expected May 2019

CGPA : 8.23 / 10

(as of 5<sup>th</sup> Semester.)

### SOUTH POINT SCHOOL, GUWAHATI

AISSCE 2014, CBSE | Guwahati, India.

Percentage : 92.2

### ST.EDMUND'S SCHOOL, SHILLONG.

ICSE 2012, CISCE | Shillong, India.

Percentage : 91.6

## COURSEWORK

### UNDERGRADUATE

Data Structures

Object Oriented Design

Discrete Structures

Signals & Data Communication

Computer Graphics

Formal Languages & Automata Theory

Stochastic Processes

Microprocessors & System Programming

Computer Networks

Computer Architecture & Organization

## SKILLS

Proficient

Java • C •  $\LaTeX$

Intermediate

Android • CSS • HADOOP • JavaScript

• Nodejs • SageMath

Familiar:

MATLAB

## AREAS OF INTEREST

Big Data, Cyber Security, Android App

Development, Core Java, Algorithms

## PROJECTS

### BIG DATA PROCESSING USING HADOOP MULTICLUSTERS

NIT SILCHAR

Guide: Mr. Ripon Patgiri, NIT Silchar.

December 2016 – February 2017

- Performed a detailed analysis of the HADOOP framework.
- Successfully connected 37 computers using the HADOOP Framework.
- Was successful in writing and executing various programs in the multi-cluster.
- Delivered a brief lecture on Big Data and HADOOP.

### TEDX NIT SILCHAR WEBSITE | 🌐

NIT SILCHAR

- Developed an interactive website for TEDx NIT Silchar, 2016.
- Technologies Used :  
HTML • JavaScript • CSS • Bootstrap Framework

## RESEARCH WORK

### STUDY AND ANALYSIS OF LIGHTWEIGHT STREAM CIPHERS | 🌐

NEHU, SHILLONG

16<sup>th</sup> May 2017 - 29<sup>th</sup> June 2017

Guide : Dr.B.Bhuyan, NEHU Shillong.

- Objective : Detailed analysis and implementation of Feedback Shift Registers, Stream Ciphers and Attacks on them.
- Analysis will help in making a better Cipher.
- Performed an attack on one of the ciphers.
- Studied various papers related to different Ciphers and also the Mathematics involved.
- Wrote a detailed report in  $\LaTeX$  on various LFSRs, Ciphers and Attacks performed of Ciphers during the internship period.

### BOOK CHAPTER

CHAPTER NAME : APPLICABILITY OF LIGHTWEIGHT STREAM CIPHER IN CROWD COMPUTING: A DETAILED SURVEY AND ANALYSIS

Co-authors : Dr.B.Bhuyan, NEHU Shillong; Mr.Subhrajyoti Deb, NEHU Shillong.

- Accepted in the book Crowd Assisted Networking and Computing to be published by CRC Press, Taylor & Francis, USA.
- Book edited by Al-Sakib Khan Pathan, Associate Professor, Department of Computer Science and Engineering, Southeast University, Dhaka, Bangladesh.
- Online version will be out soon.

## ACHIEVEMENTS

Stood 8<sup>th</sup> in ICSE(10<sup>th</sup> Board), 2012 in the State of Meghalaya, India.

Accredited with A+ in Core Java by HPES held in NIT Silchar(January 2016).

Accredited with A in Android App Development by HPES(May-June 2016).

## EXPERIENCE

**EXECUTIVE MEMBER** | COMPUTER SCIENCE SOCIETY, NIT SILCHAR.  
2017-2018

**RESEARCH INTERN** | NEHU, SHILLONG.  
May 2017 - June 2017

**CORE TEAM MEMBER & WEBSITE DEVELOPER**  
TEDx NIT SILCHAR  
November, 2016

**INSTRUCTOR OF C CLASSES OF FRESHMEN IN NIT SILCHAR**  
2016-2017

**CORE JAVA TRAINEE** | HP EDUCATION SERVICE  
January ,2016

**ANDROID APP DEVELOPMENT TRAINEE** | HP EDUCATION SERVICE  
Kolkata Batch of Summer 2016