

# Shreyas Bhat

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## EDUCATION

### BITS PILANI

BE IN COMPUTER SCIENCE

Expected May 2019 | Goa, India  
Cum. GPA: 9.17

### DELHI PUBLIC SCHOOL

Grad. May 2015 | Navi Mumbai, India  
12th Percentage: 95.4  
10th CGPA: 10

## LINKS

Github:// [shreyasnbhat](#)  
LinkedIn:// [shreyasnbhat](#)

## SKILLS

### PROGRAMMING

Java • Python • C++ • C  
Solidity • HTML+CSS

### TECHNOLOGIES

Android • Git • Firebase  
Flask • Pandas • Numpy  
Truffle • Jupyter • Vagrant  
Familiar  
Spring • Tensorflow • Keras

## ACHIEVEMENTS

Merit Scholarship Top 3% (2017-2018)  
ETH Singapore Hackathon Finalist

## MOOCS

UC Boulder Cryptography Specialization  
deeplearning.ai Specialization  
SUNY Buffalo Blockchain Basics

## TEACHING ASSISTANT

Computer Programming (C/BASH)  
Object Oriented Programming (Java)  
Software Development for Portable  
Devices

## EXTRA CURRICULAR

Sub Coordinator of Mobile App Club  
Instructor for Android App Development  
Member of Blockchain Club BITS Goa  
Member of Google Dev Group BITS Goa  
Badminton  
Karate(Black Belt)

## EXPERIENCE

### MICROSOFT RESEARCH

Research Intern

Since Jan 2019 | Bangalore, India

Advisor : Nishanth Chandran

- Working with the cryptography group on a secure two party computation C++ backend for the EzPC project.
- Developing a backend that supports Arithmetic and Yao Sharing.

### MORGAN STANLEY

Summer Analyst

May 2018 – July 2018 | Bangalore, India

Manager : Amit Kumar Singh

- Added context to a chatbot to make it conversational.
- Wrote an adapter to render every conversational flow as a graph in Neo4j.

### FOSSASIA

Open Source Developer

March 2017 – July 2017 | Mumbai, India

- Redesigned the application's UI/UX with Google's Material Design
- Added features such as Global Search, a Dashboard and Travis-CI scripts.

### LARSEN & TOUBRO INFOTECH

Software Engineering Intern

May 2017 – June 2017 | Mahape, India

- Developed an app to generate dynamic feedback forms using through Firebase.
- Automated analysis of feedback data generated through cron scripts. The analysed reports were used in official reports.

## PROJECTS

### MULTI TARGET MULTI CAMERA TRACKING

Aug 2018 - Dec 2018

An implementation to track multiple targets in a CCTV network and plot target tracks in a 2D Top View of the CCTV environment. Used Ristani's DeepCC as reference. Monocular depth estimation was also utilized to estimate a 3D estimate for a target.

### DECENTRALIZED VOTING

August 2018 - September 2018

An app which can handle elections on a permissioned blockchain. The voting system employs cryptoeconomic mechanisms to dissuade malicious actors.

### NETWORK SECURITY IN VANETS

Feb 2018 - May 2018

Worked to compare efficiency of various Lightweight Authentication Schemes in Vehicular ad hoc networks.

### CROWDINFO: CROWDSOURCING WITH BLOCKCHAIN

Nov 2017

Incentivized crowdsourcing through surveys. Zero Knowledge validation of submitted surveys using smart contracts; Off chain identity protocol

### OTHER PROJECTS

Since Aug 2015

- **Consistent Hashing Visualizer** : A simple tool to verify claims put forward by consistent hashing.
- **Federated Learning** : Privacy preserving machine learning through federated averaging of local client side models. A Blockchain + IPFS system was developed to track node participation and to provide incentives.
- **Cross Shard Communication in Ethereum** : Prototyped a version of EthereumVM which could support cross shard messages and contract calls.
- **Distributed RNG on Blockchain** : A distributed RNG to introduce randomness on the blockchain using cryptographic commitments.
- **Sports Activity Detection** : A classifier to classify sport action videos using convolutional and recurrent networks.
- **Face Find** : An app that helps track missing persons with Computer Vision.