

# Shreyas Bhat

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## EDUCATION

**University of Southern California**  
**MASTERS IN COMPUTER SCIENCE**  
Los Angeles, USA | May 2021  
CGPA: 3.8

**BITS Pilani**  
**B.E IN COMPUTER SCIENCE**  
Goa, India | July 2019  
CGPA: 9.26

## LINKS

Github:  
<https://github.com/shreyasnbhat>  
LinkedIn:  
[www.linkedin.com/in/shreyasnbhat](http://www.linkedin.com/in/shreyasnbhat)

## SKILLS

### Programming

C++ • C • Java • Python  
MySQL • 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

## CERTIFICATIONS

UC Boulder Crypto Specialization  
deeplearning.ai

## TEACHING ASSISTANT

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

## EXTRA CURRICULAR

Sub Coordinator of Mobile App Club  
Member of Blockchain Club BITS Goa  
Member of Google Dev Group BITS Goa

## EXPERIENCE

### GOOGLE

Software Engineering Intern

May 2020 – Present | Sunnyvale, US

Manager : Timothy Kang

- Developing a performance testing framework for the Andromeda Control Plane

### MICROSOFT RESEARCH

Research Intern

Jan 2019 – June 2019 | Bangalore, India

Advisor : Nishanth Chandran

- Devised protocols for secure matrix multiplications that reduced communication costs by almost 15%
- Worked with a team of 5 to develop an easy to use secure computation C++ backend supporting convolutions, matrix multiplications and ReLus
- Developed a version of EzPc that compiled to the secure backend. Reduced third party developer effort by almost 80%

### MORGAN STANLEY

Summer Analyst

May 2018 – July 2018 | Bangalore, India

Manager : Amit Kumar Singh

- Built a context mechanism to aid the AskResearch chatbot answer questions based on conversation history and other indicators
- Developed an adapter to render 8 conversation validation graphs in Neo4j

### LARSEN & TOUBRO INFOTECH

Software Engineering Intern

May 2017 – June 2017 | Mahape, India

- Developed an app to generate dynamic realtime feedback forms using Firebase
- Automated analysis of feedback data generated through cron scripts. They were used in official reports shown to upper management

## PROJECTS

### WEENIX OS

Jan 2020 - May 2020

Wrote a version of the Weenix OS, a subset of Linux. Implemented features like processes/threads, virtual file system and virtual memory.

### STABLECOIN SIMULATOR

Feb 2020 - May 2020

Implemented a simulation framework to see how a set of optimal investors given external conditions, drives the price of the digital asset DAL.

### VIDEO SUMMARIZER

April 2020 - May 2020

Developed a PyQt5 Application to create and browse media content using synopsis images. Techniques involved were frame thresholding and clustering.

### CROWDINFO: CROWDSOURCING WITH BLOCKCHAIN

Nov 2017

Incentivized crowdsourcing through surveys and zero knowledge validation of submitted surveys using smart contracts. Devised an off chain identity protocol

### OTHER PROJECTS

Since Aug 2015

- Federated Learning** : Developed a privacy preserving machine learning protocol through averaging of local client 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.
- Sports Activity Detection** : Built a lightweight 200KB classifier to classify sport action videos using convolutional and recurrent networks.