Shreyas Bhat

shreyasnbhat@gmail.com | +1 213-800-6822

EDUCATION

USC
Masters in Computer Science
Los Angeles, USA | May 2021

BITS PILANI
B.E in Computer Science
Goa, India | July 2019
Cum. GPA: 9.26

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 Crypto Specialization
deeplearning.ai
SUNY Buffalo Blockchain Basics

TEACHING ASSISTANT

Computer Programming (C/BASH)
Object Oriented Programming (Java)
Software Dev 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
Jan 2019 – June 2019 | Bangalore, India
Advisor : Nishanth Chandran
- Devised protocols for secure matrix multiplications that reduce communication costs by almost 15%.
- Developed a secure computation C++ backend that supports evaluating Convolutions, Matrix Multiplications and ReLus securely.

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.