

Shreyas Bhat

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EDUCATION

University of Southern California
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:
<https://github.com/shreyasnbhat>
LinkedIn:
www.linkedin.com/in/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

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
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 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

FOSSASIA

Open Source Android Developer

March 2017 – July 2017 | Mumbai, India

- Implemented features such as Global Search, a user dashboard and wrote TravisCI scripts for custom build generation
- Revamped over 10 pages of the OpenEvent application's UI for easy navigability

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

MULTI TARGET MULTI CAMERA TRACKING

Aug 2018 - Dec 2018

Developed a working implementation to track multiple targets in a CCTV network. Monocular depth estimation was utilized to estimate a depth map.

DECENTRALIZED VOTING

August 2018 - September 2018

Deployed an app which could handle elections on a permissioned blockchain. The voting system employed cryptoeconomic mechanisms to dissuade malicious actors.

NETWORK SECURITY IN VANETS

Feb 2018 - May 2018

Implemented and verified efficiency and security levels of 3 Lightweight Authentication Schemes in Vehicular ad hoc networks.

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.