

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/shreyasbhat>
LinkedIn:
www.linkedin.com/in/shreyasbhat

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
deplearning.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

May 2020 – Aug 2020 | Sunnyvale, US

Software Engineering Intern

Manager : Timothy Kang

- Developed a performance testing framework for the Andromeda VM Controller. Continuously running microbenchmarks help identify non-performant code.
- Added a regression detection system to detect performance creep.

MICROSOFT RESEARCH

Jan 2019 – June 2019 | Bangalore, India

Research Intern

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

May 2018 – July 2018 | Bangalore, India

Summer Analyst

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

May 2017 – June 2017 | Mahape, India

Software Engineering Intern

- 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 DAI.

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.