

Saurav Malani

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EDUCATION

IIIT HYDERABAD

B.TECH AND M.S. BY RESEARCH

Computer Science And Engineering

CGPA: 7.08

Expected Graduation:2020

RELEVANT COURSES

Data Warehousing & Data Mining*

DataBase System

Machine Learning

Statistical Methods in AI

Artificial Intelligence

Principles of Information Security

Advanced Computer Networks*

Operating System

Distributed System

Graphics

(*Currently pursuing)

ACHIEVEMENTS

- 300th rank in 11,000 participants in 2018 International Quant Championship
- Top 0.001% among 1.2 Million Student in All India Engineering Entrance Exam-15.
- Winner AI Bot to play Ultimate Tic-Tac-Toe Game.

POSITIONS

- Teaching Assistant for Principles Of Information Security Course.
- Vice-Chair IEEE Student Branch.
- Student Head @ Python Conference Hyderabad-17.
- Placement Committee member.
- TEDx Volunteer.

SKILLS

PROGRAMMING

- C • C++ • Python • Matlab
- Bash Scripting • JavaScript
- \LaTeX • CSS • PHP
- MYSQL • Neo4J
- Assembly MIPS
- OpenGL • GO

Framework:

- Flask • Web2py

Search Engine:

- Solr

OPERATING SYSTEM

Linux

EXPERIENCE

GSOC | CLOUD NATIVE COMPUTING FOUNDATION (CNCf)

May-19 – Present | Remote

- Cortex is a distributed monitoring tool. Ingestor is a stateful component in the Cortex ecosystem that builds Prometheus chunks from incoming samples. I am working on improving how Ingestors hand over their data when they are being created or deleted in order to easily scale.

BLOOMREACH | SOFTWARE DEVELOPMENT INTERN

May-19 – Present | Bangalore

- Working with the search quality team to improve the auto-correction algorithm of their Search Engine, by taking phonetics, user behavior & keystrokes into account.

KUBERNETES, OPENDAYLIGHT | OPEN SOURCE CONTRIBUTION

May-18 – Dec-18 | Remote

- Worked on updating OpenAPI SecurityDefinition in Kubernetes Python-Client to use Authorization header name, following HTTP standard.
- Solved "test directory listing" issue & Created and Uploaded a Kubernetes Python-Client package to Python Package Index.
- Added a Utility for OpenFlow Plugin, to delete Cookie based flow in one shot.

KALHATTI, US BASED STARTUP | CRYPTO ENGINEER

Dec-18 – Feb-19 | Remote

- Developed & Implemented decentralized authentication system using the idea of Threshold Multiparty Signature in React.js for their App.

RESEARCH

THEORETICAL & APPLIED CRYPTOGRAPHY RESEARCHER

Mar-18 – Present | CSTAR Lab IIIT-H

- Working on developing User Access Control Mechanism for IoT Environment.
- Working on latest cloud based advanced cryptography like Functional Encryption & Homomorphic Encryption.

SELECTED PROJECTS

CRYPTOCURRENCY PRICE PREDICTOR | PYTHON, MACHINE LEARNING LIBRARIES

- Built a price predictor for Bitcoin and Ethereum Cryptocurrency by doing time series analysis using ARIMA & Holt-Winter method.

SONG POPULARITY PREDICTOR | SKLEARN, PYTHON

- Built a Song Popularity Predictor to classify a song into different levels of popularity, using supervised and deep learning algorithms.

MINI SHELL | C

- Created a Shell from scratch for linux systems capable of handling background and foreground processes, piping, redirection, common BASH commands and employed the use of system calls.

ULTIMATE TIC TAC TOE BOT | PYTHON

- Implemented an AI minimax bot that plays 4 by 4 Ultimate tic tac toe and optimized it using alpha-beta pruning and cached transition table