# MALAPATI VENKATA BHARATH

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## SUMMARY OF QUALIFICATION

**Georgia State University**, Atlanta, USA. Jan 2020 - Present
**Master's in Computer Science** **CGPA: 4.24 / 4.24**
**Coursework:** Advanced Deep Learning, Graph Mining, Big-Data Programming, Advanced Computer Networks, Design and Analysis of Algorithms, Operating Systems, Software Engineering

**BML Munjal University**, Gurugram, Haryana, India. Aug 2015 - May 2019
**Bachelor of Technology in Electronics and Communication Engineering** **CGPA**: 8.45/10
**Coursework:** Information Theory and Coding, Introduction to Statistical Learning, Digital Signal Processing, DC

## SKILLS

**Programing Languages:** Python, Java, C, MATLAB, SQL,
**Machine Learning/Deep Learning:** Tensorflow, Pytorch, Keras, Sci-kit Learn, NLTK, Apache Spark, OpenCV
**Web Technologies:** MEAN and MERN stacks, MongoDB, MySQL, Angular, React, Spring-Boot, Spring Security, Android, REST API, Git, Linux, Windows, jQuery, Bootstrap, Jwt, Spring JPA,
**Others:** Socket Programming, TCP/IP, Map Reduce Hadoop.

## RESEARCH PUBLICATIONS [IEEE]

- Implementation of IoT Architecture for Intruder Alert System using MQTT Protocol and MEAN Stack. Link
- Test Vector Reordering by using Hybrid Genetic Algorithm-Simulated Annealing for Lower Switching Activity. Link

## WORK EXPERIENCE

**Graduate Research Assistant at Evidence Based Cyber Security Research Group, GSU** Jan 2020 – Present

- Developing middleware which scrapers and parsers different Darknet Markets for products sales, vendor, and their ratings as part of data collection using web automation frameworks Selenium and Beautiful Soup in Python.
- Maintaining code quality and updating the code as per requirements, evaluate the collected data to enhance its quality using SQL. Improving existing scripts to automate scraping and parsing process using Telegram API.
- Developed Bash Script for Extracting Meta Information/Data Present in PGP keys of the collected data, Organising the collected meta data using Data frames for further research in python.

**Deep Learning Research Intern at Endimension Technology,** IIT Bombay, Mumbai, India**.** Jan 2019 - June2019

- As a Deep Learning Researcher, worked on leading problem "Segmentation of Lung Nodules in a CT scan using Deep Convolutional Networks "with controlling the effect of false positives by adding a second stage CNN.
- Developed model to the leading edge problem, "Classification of Lung Nodules Malignancy" from a segmented lung nodule in a CT scan using Deep Learning.
- Implementation of an annotation tool prototype using Watershed algorithm and Web-Technologies (HTML, JavaScript).

**Summer Intern at Defence Research Laboratory (DLRL),** Hyderabad, India May 2017 - July2017

- Ethernet Based Device Control System Using ARM Microcontroller-SAMA5D3Xplained Created a UI that can be used to control electronic devices which are connected via Ethernet using Embedded C and Html.

Python, Torch, TensorFlow, OpenCV, DL, JS, MongoDB, GCP, MySQL, Linux, Bash, Selenium, Beautiful Soup.

## PROJECTS

- File Transfer System Between Server(PC/Server) and Android App using Socket Communication Link July 2020
  Java, Andriod, TCP/IP, Mobile App Development, Operating System, System calls, Andriod App Development
- Developed and Deployed Web App for food donating system by restuarents to charities in zip ROI Link July 2020
  Java,Spring-Boot,Spring-Security,ReactJS,JavaScript,NodeJS, MySQL,REST API's,JWT,Spring-JPA
- Hybrid Recommended System using both Colloborative and Content Based filtering Link March 2020-April 2020
  Spark, Databricks, Python, TD-IDF,
- End to End Development of devanagari script letters classification using DCNN, Deployed the model as REST API Link
  Python, TensorFlow, TensorFlowJS, OpenCV, CNN, ExpressJs, NodeJS, Javascript, Heroku, DL, ML, AI
- Optic Disk and Cup Segmentation in Fundus Images using Convolutional Neural Networks and Image processing techniques for faster and efficient diagnosis of glaucoma Link Aug 2018-Dec 2018
- Designed and developed frontend for more than four websites, online fare calculator for distance transported using HTML, jQuery, JavaScript, Bootstrap, Angular JS Link