

SKILL SET

- **Languages:** Java, C++, Python, SQL
- **Technologies:** Android SDK/NDK, OpenStack, Docker, Apache Kafka, MySQL, Zabbix
- **Frameworks:** Iotivity, Scikit-Learn, NLTK, Numpy
- **Hardware Platforms:** Raspberry Pi, Tizen

MAJOR PROJECTS

- **Virtual Firewall Implementation using Python** Jan 2017 – Apr 2017
Under Prof. Kotaro Kataoka
 - Implemented packet filtering logic firewall using the rules.
 - Benchmarked the firewall and created multiple instances of it handle the load efficiently.
 - Implemented a mechanism to detect the port scan attack.
- **WiFi Ad-hoc network (IBSS) for Tizen framework** Aug. 2016 - Nov. 2016
Under Prof. Antony Franklin
 - Developed an ad-hoc network for 3 or more Tizen nodes.
 - The resultant setup can be used in wireless sensor networks, vehicular ad-hoc networks, and many more places.
- **Automating Publication Management System** Jan 2017 – Apr 2017
Under Prof. Manohar Kaul
 - Automated scripts to manage and update recent publication from each faculty's Google Scholar Profile.
 - **Web Crawling:** Scripts to periodically crawl Google Scholar profiles and update new publications by a faculty.
- **Implementation of SLA based Microservices** Nov. 2017 - Present
Under Prof. Bheemarjuna Reddy Tamma
 - Realized the concept of Network Slicing with Isolated Logical Networks on top of OpenStack virtualization platform.
 - Orchestrated (with the help of Open Baton) the VNFs for ensuring the SLAs of the User Traffic and Scalability of Network Slices in 5G Networks.
- **Dynamic Adaption of Cool-Down Period for AutoScaling of VNFs** Nov. 2018
Under Prof. Bheemarjuna Reddy Tamma
 - Reduced the number of Scale Ups by observing the variation in the load and adaptively changing the Cooldown period.

PUBLICATIONS

- **MobiCom 2018:** "Scalable Network Slicing Architecture for 5G", **Accepted** as Poster in ACM MobiCom 2018.

CERTIFICATIONS

- **Beginning Game Programming with C#:** Successfully completed the online course offering by University of Colorado System on Coursera. *GPA : 7.8.*
- **Programming Mobile Applications for Android Handheld Systems:** Successfully completed the online course offering by University of Maryland College Park on Coursera. *GPA : 6.9 .*
- **Computer Networks:** Successfully completed the online course offering by University of Washington on Coursera. *GPA : 7.15 .*

EDUCATION

- **Indian Institute of Technology Hyderabad** Kandi, Telangana, India
Master of Technology in Computer Science; GPA: 8.54/10
Advisor: Prof. Bheemarjuna Reddy Tamma
Aug. 2016 – Present
- **Sreenidhi Institute of Science and Technology** Ghatkesar, Telangana, India
Bachelor of Technology in Computer Science and Engineering; Percentage: 80%
Aug. 2012 – June. 2016
- **Nano Junior College** Hyderabad, Telangana, India
Intermediate; Percentage: 88.5%
Aug. 2010 – May. 2012
- **Sri Sai Grammar High School** Hyderabad, Telangana, India
School Secondary Certificate; Percentage: 87.5%
May 2010

EXTRA CO-CURRICULARS

- Volunteered for National Communication Conference (NCC) held in February 2018 at IIT Hyderabad. Implemented QR Code based validation mechanism for participants.
- Attended Information and Communications Technology for Development (ICT4D) Conference held in Hyderabad, India in May 2017.

HOBBY PROJECTS

- **QoE Visualizer**: Made a Quality of Experience Visualizer Chrome Extension for visualizing the network data. Some of my projects are hosted at <https://github.com/tulja>

INTERESTS AND HOBBIES

- Watching TED talks and Movies, Reading Books (Non-Fiction)
- Calligraphy, Listening to Podcasts, Online Courses

LANGUAGES

- Telugu, Hindi, English