

# Vijayanand Thangavelu

<https://vijathanga.github.io/resume>  
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## EDUCATION

### NATIONAL UNIVERSITY OF SINGAPORE

MSC IN ELECTRICAL & COMPUTER SCIENCE  
Dec 2018 | Singapore,  
CGPA: 4.2/5\*

### PSG COLLEGE OF TECHNOLOGY

BE IN ELECTRONICS & COMMUNICATIONS  
2011 - 2015 | India,  
CGPA: 9.8/10 (batch topper)

## LINKS

Github:// [vijathanga](#)  
LinkedIn:// [vijathanga](#)

## COURSEWORK

### GRADUATE

Advanced Computer Networks  
System Security  
Embedded System Design  
Visual Computing  
Network Security

### UNDERGRADUATE

Computer Networks  
Operating Systems  
Computer Architecture  
C++ and Datastructures  
Embedded Systems

## SKILLS

### PROGRAMMING

Over 5000 lines:  
C/C++ • Shell (bash) • Python  
MATLAB • node.js

Over 1000 lines:  
Java • Verilog • Javascript  
Assembly • Embedded C

### WORKED ON

Networking • SDN • NFV  
Dockers • Machine Learning  
IoT Security • Linux

## EXPERIENCE

### NUS | GRADUATE STUDENT RESEARCHER

Expected Feb 2018 – Nov 2018 | Singapore

- Involved in development of secure framework for IoT devices using technologies like SDN, NFV and Machine Learning.

### CISCO SYSTEMS | SOFTWARE ENGINEER

Aug 2015 – Aug 2017 | Bangalore, India

- C/C++ application developer for AnyConnect ISEPosture - an enterprise grade Network Access Control (NAC) software available for both Mac and Windows.
- Contributed to next-gen posture discovery - mechanism for client to locate NAC server when it connects to enterprise network.

### CISCO SYSTEMS | SOFTWARE ENGINEER INTERN

Jan 2015 – June 2015 | Bangalore, India

- Aided in testing various distributed storage technologies for application Identity Services Engine (ISE).
- Worked on technologies like Hadoop, HBase, CouchDB and Java.

## PROJECTS

### COORDINATED ATTACK DETECTION IN IOT | May 2018\*

A distributed framework for fingerprinting and detecting coordinated attacks happening across a network on a particular type of IoT device.

### SPEECH ASSISTANCE FOR MUTE PEOPLE | Dec 2014

A prototype for interpreting sign language was developed to help mute people. Sign languages are recognized by Inertial Measurement Unit (IMU) and flex Sensors.

## PUBLICATIONS

### DEFT: A DISTRIBUTED IOT FINGERPRINTING TECHNIQUE

August 2018 | IEEE Internet of Things Journal | Volume 5, Issue 5

## PATENT

### A SYSTEM AND METHOD FOR IDENTIFICATION OF INTERNET OF THINGS (IOT) DEVICES BASED ON A DISTRIBUTED FINGERPRINTING SOLUTION

July 2018 | Patent pending

## CERTIFICATION

### CISCO CERTIFIED NETWORK ASSOCIATE (CCNA)

Feb 2016 – Feb 2019 | ID: CSC012938457

## AWARDS

2016	Innovator award	Cisco Security Business Group
2015	All Rounder	PSG College of Technology
2015	Gold Medalist	ECE Department topper