

Vijayanand Thangavelu

<https://vijathanga.github.io/resume>
vijayanand@u.nus.edu | +65 81329960

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 RESEARCH

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 net.

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