

Vijayanand Thangavelu

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

NATIONAL UNIVERSITY OF SINGAPORE

MSC IN ELECTRICAL & COMPUTER SCIENCE
2017 - 2018 | Singapore,
CGPA: 4.7/5

PSG COLLEGE OF TECHNOLOGY

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

LINKS

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

COURSEWORK

GRADUATE

Multiprocessor Systems
Real Time Systems
Advanced Computer Networks
System Security
Embedded System Design
Visual Computing

UNDERGRADUATE

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

SKILLS

PROGRAMMING

Well-versed:
C/C++ • Shell (bash) • Python
MATLAB • node.js

Acquainted:

Java • Groovy • Javascript
Assembly • Embedded C

WORKED ON

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

EXPERIENCE

VISA INC | SR SOFTWARE ENGINEER

Jan 2019 – Present | Singapore

- Working on technologies like spring boot, Jenkins, Python, Java and Angular.
- Involved in full stack development of CICD metric dashboard.

SINGTEL - NUS | GRADUATE STUDENT RESEARCHER

Feb 2018 – Nov 2018 | Singapore

- Developed distributed framework for NFV deployment on network edges.
- Worked on technologies like python, java, SDN, docker and machine learning.
- Designed, implemented and deployed solutions line device fingerprinting and anomaly detection solution.

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 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

DISTRIBUTED DEVICE FINGERPRINTING (PYTHON) | MAY 2018

A distributed framework in python for classifying and dynamically learning new IoT devices using supervised & semi-supervised ML algorithms. Got exposure on distributed computing, containers, machine learning and socket programming.

IDENTITY SERVICE ENGINE SIMULATOR (NODE.JS) | Dec 2014

Simulator for a Network Access Control server (ISE). Client- server handshake, secure communication and web UI were some of the features implemented. Got hands on knowledge on REST API, cryptography and websockets.

PUBLICATIONS

DEFT: A DISTRIBUTED IOT FINGERPRINTING TECHNIQUE

August 2018 | IEEE Internet of Things Journal | [Volume 6, Issue 1](#)

NETRA: IOT SECURITY USING NFV EDGE TRAFFIC ANALYSIS

February 2019 | IEEE Sensors Journal | [Early Access](#)

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

