# LEE, HAESUNG (STEPHEN)

Download PDF

*CLOUD ENGINEER, MACHINE LEARNING*

2/10 Orwell St, Potts Point, NSW, 2011, Australia
Tel: +61432399841
Email: achasma@gmail.com

## *PROFILE*

I am a Sydney based inventor and software developer of programs such as IoT and Algorithm for Machine Learning and Computational Statistics, like Python, TensorFlow, and PyTorch, including a Tutorial System for IoT Makers. My skills are shown below in my comprehensive skill chart. I have 15 years experience in the design, technical consulting service and software development like AI system, Deep Counting System in Real Time, RNN Stock Price Prediction(By TensorFlow), SigFox IoT Sensor System, Face Recognition System and Home Security Camera System.

## *SKILL SUMMARY*

### 4 Languages

- English
- Korean
- Japanese
- Chinese

### Web Programing

Level 1

### Data Science

Level 3

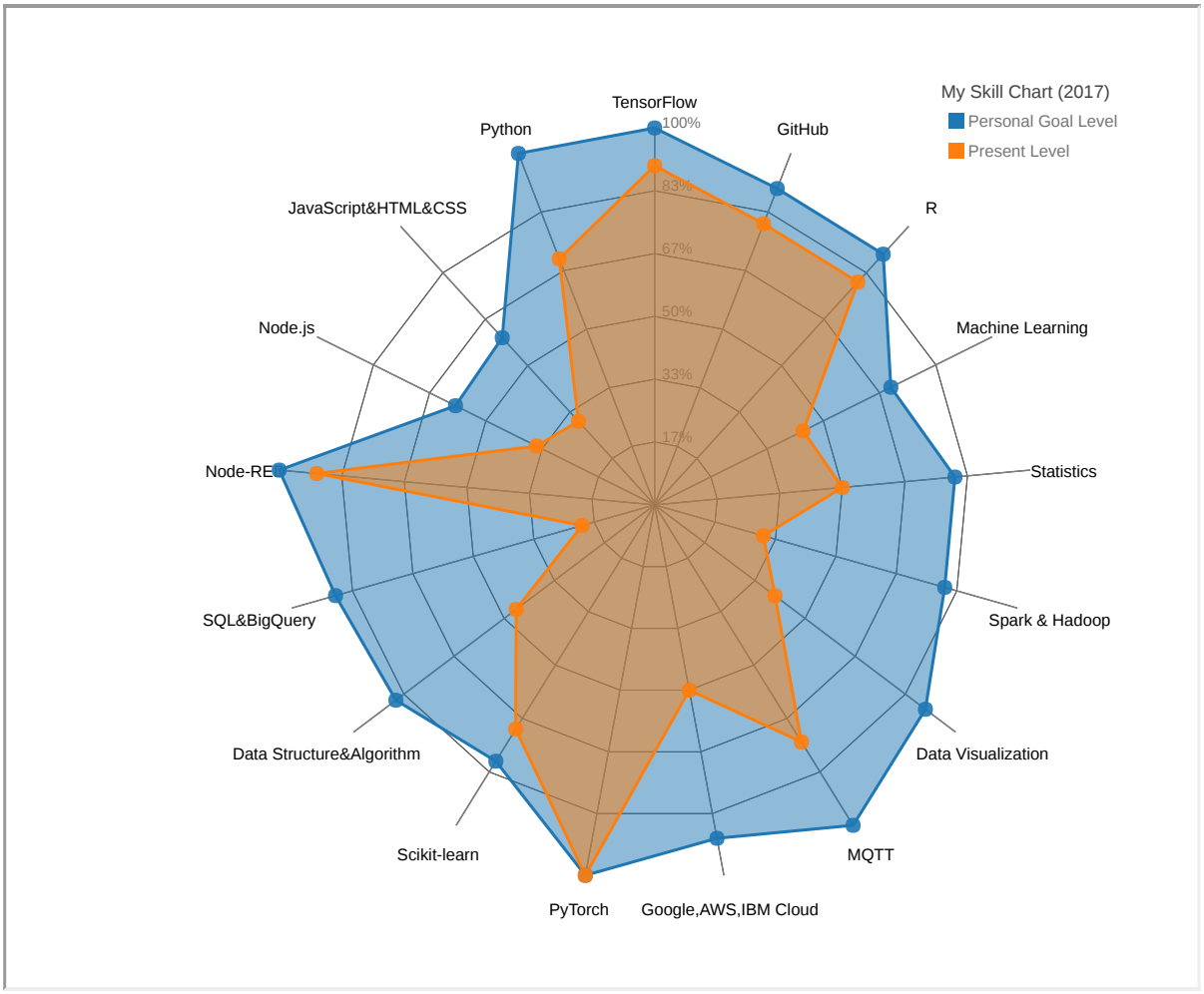
### IoT HW & SW

Level 2

## *SKILL CHART*

- Full-Stack
- Data Science
- My Skill Chart

| | | |
|---|---|---|
| HTML | TensorFlow | Machine Learning |
| CSS | Scikit-learn | Hadoop&Spark |
| JavaScript | Keras | Map-Reduce |
| Google&AWS&IBM Cloud | PyTorch | Matlab |
| Linux | SQL | BigQuery |
| Python | Wireless & MQTT | Data Visualization |
| Node.js | IBM Watson IoT | Computational Statistics |




## *EDUCATION*

- Online
- IT School
- English School
- Bachelor
- Certificate Box

### Machine Learning by Stanford University on Coursera — July 5, 2016

- With Distinction
- License Number:W256TMG3R5H8

### Statistical Learning by Stanford University on Stanford Online — July 20, 2016

- With Distinction
- License Number:fc74c29d139a43a091bcd0ea749d56e8

### The Data Scientist's Toolbox by Johns Hopkins University — July 21, 2016

- With Distinction
- License Number:AXM8PNVQ3AZU

### Sydney College of Business and IT, Sydney — 2015-2017

- HTML, CSS, JavaScript, PHP, SQL,
Visual Basic.net, Visual C++, C#,
Software Testing & Deployment and Copyright Ethics.
- Developed PID Control For CPU Temperature of Raspberry Pi
- Invented a MQTT-Gas-Valve For Home Safety
- Developed Face Recognition app
- Made an IoT Tech Blog of 159 countries' visistors.

### Stepone Language College, Sydeny — 2012-2014

- Improved my English Skills in Grammar,Writing,
Speaking, English Conversation and Australian Accent.
- Had a working holiday experience to improve my English skill.

### Seoul National University of Technology, South Korea — February 2007

**Bachelor** of Control and Instrumentation Engineering **(4.0 GPA)**

- Learned C Programing, Intelligent Control(Fuzzy Control), Modern Control(Neural Network), Automatic Control(PID), Digital Signal Processing, Electronic & Electric design.
- Invented a patent of Oxygen generator for soil (Korea Pat: 10-0734438)

- Awarded Korea Ministry Award of Oxygen Generator System for soil

*EXPERIENCE*

- Teacher
- Startup
- Developer
- Engineer
- Publications
- Open Source
- Meetup
- MOOC
- Leadership
- Volunteer
- Portfolio Box
- Certificate Box

## RobotClass, Sydney — November 2016-Present

**Teacher**

- Teaching kids basic math, basic robotics, and Scratch programming

## AKASMA, South Korea — 2010-2011

**CEO**

- Designed & developed a recycling can system to refund electronic money.
- Invented a patent of Oxygen generator for soil (Korea Pat: 10-0734438)
- The product's name was called 'Green Can-Money System'.
- Unfortunately it failed due to lack of marketing and finance.

## CAS Electronics, South Korea — 2007-2009

**Junior Product Developer**

- Developed firmware(C&C++) for products: Weighing Controller & Indicator.
- Improved failure rate of production from 30% to 2% by factor of PB.

## Honewell Korea(JayCC Engineering) — 2003-2007

**Installation Engineer**

- Installed & programmed FA Controllers such as PLC, SCADA, DCS.

## Sotware Acitivities — 2013-Present

Publications

- PID Control For CPU Temperature of Raspberry Pi
- A smart gas valve for home safety by MQTT
- A smart JPEG camera for home security by using M2M Communication

Open Source Communities:

Node-RED||Twilio Python||IoT Python||Python Sense Hat||Data Science Python||NoSQL Python||Python Twitter

MEETUPs:

OzBerry IoT||Sydney IoT||Sydney Python||Big Data Analytics

MOOCs:

- A Developer's Guide to the IoT by IBM||**Statistical Learning(Stanford University)**||
- **Machine Learning(Stanford University)**||The Data Scientist's Toolbox(Johns Hopkins University)

TEAM LEADERSHIP:

- Term 1: Developing the Leader Within You(Hillsong Leadership Evening College)
- Term 2: Developing the Leaders Around You(Hillsong Leadership Evening College)

Volunteer:

**Australia Salvation Army**||IBM Open Source Helper||Hillsong City Care

## Recent Project:

- Implemented many iCore MLs for iOS Apps:
- 'Not A Banana' App (1)
- 'Not A Banana' App (2)
- Visual Detection App
- Written Letter Recognition App
- Apple Watch App (1)
- Apple Watch App (2)
- Developed Face Recognition System
- Invented Realtime DeepCounter System (Deep Learning)
- Developed SigFox IoT Sensor System
- Developed RNN Stock Price Prediction(TensorFlow)||1-PNG||2-PNG||3-PNG
- Developed TensorFlow-Powered Vision For Pi-based robot
- Implemented Differential Equation For TensorFlow||Partial Differential Equation For TensorFlow
- All Portfolio