

LEE, HAESUNG (STEPHEN)

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CLOUD ENGINEER, MACHINE LEARNING

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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 a 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 Programming

Level 1

Data Science

Level 3

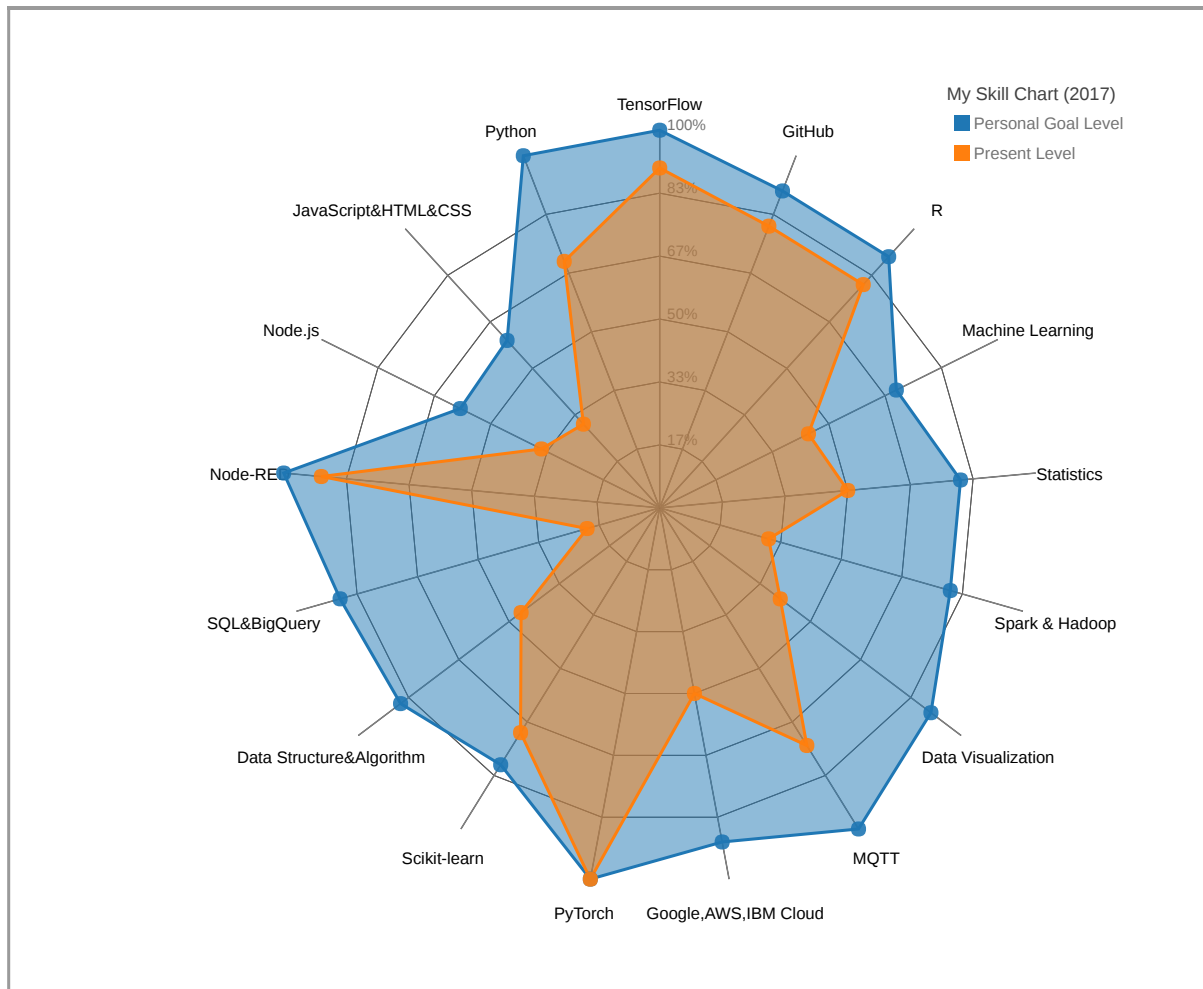
IoT HW & SW

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' visitors.](#)
- Awarded [Judges' Prize: Use of the IBM Watson or Watson IoT Services, or open source Node-RED visual programming tools.](#)

[Stepone Language College, Sydney](#)

2012-2014

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

[Seoul National University of Technology, South Korea](#) [Bachelor](#) of Control and Instrumentation Engineering ([4.0 GPA](#))

February 2007

- Learned C Programming, 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 a factor of PB.

Honeywell Korea(JayCC Engineering)

2003-2007

FA Installation Engineer

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

Software Activities

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 CoreMLs 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 For IoT Data Analytics](#). || [\(Jupyter-notebook viewer\)](#)
- Developed [RNN Stock Price Prediction\(TensorFlow\)](#). || [1-PNG](#) || [2-PNG](#) || [3-PNG](#).
- Developed [TensorFlow-Powered Vision For Pi-based robot](#).
- Developed [YOLO-Powered Robot Vision For Pi-based robot](#).
- Implemented [Differential Equation For TensorFlow&Partial Differential Equation For TensorFlow](#).
- Developed [Monitoring System For Server's CPU Temperature](#). || [\(Jupyter-notebook viewer\)](#)
- Developed [ESP8266-01 with DHT11 For IoT Data Analytics](#). || [\(Jupyter-notebook viewer\)](#)
- Developed [Pi Sense HAT with SQLite For IoT Data Analytics](#). || [\(Jupyter-notebook viewer\)](#)
- Developed [Samsung ARTIK-710 For IoT Data Analytics](#). || [\(Jupyter-notebook viewer\)](#)
- [All Portfolio](#)