

# LEE, HAESUNG (STEPHEN)

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IPHONE SW DEVELOPER WITH MACHINE  
LEARNING

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PROFILE

I am a Sydney based inventor and software developer of programs such as IoT and Alogorithms for Machine Leaning 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, Stock Price Prediction(By TensorFlow), Face Recognition System and Home Security Camera System.

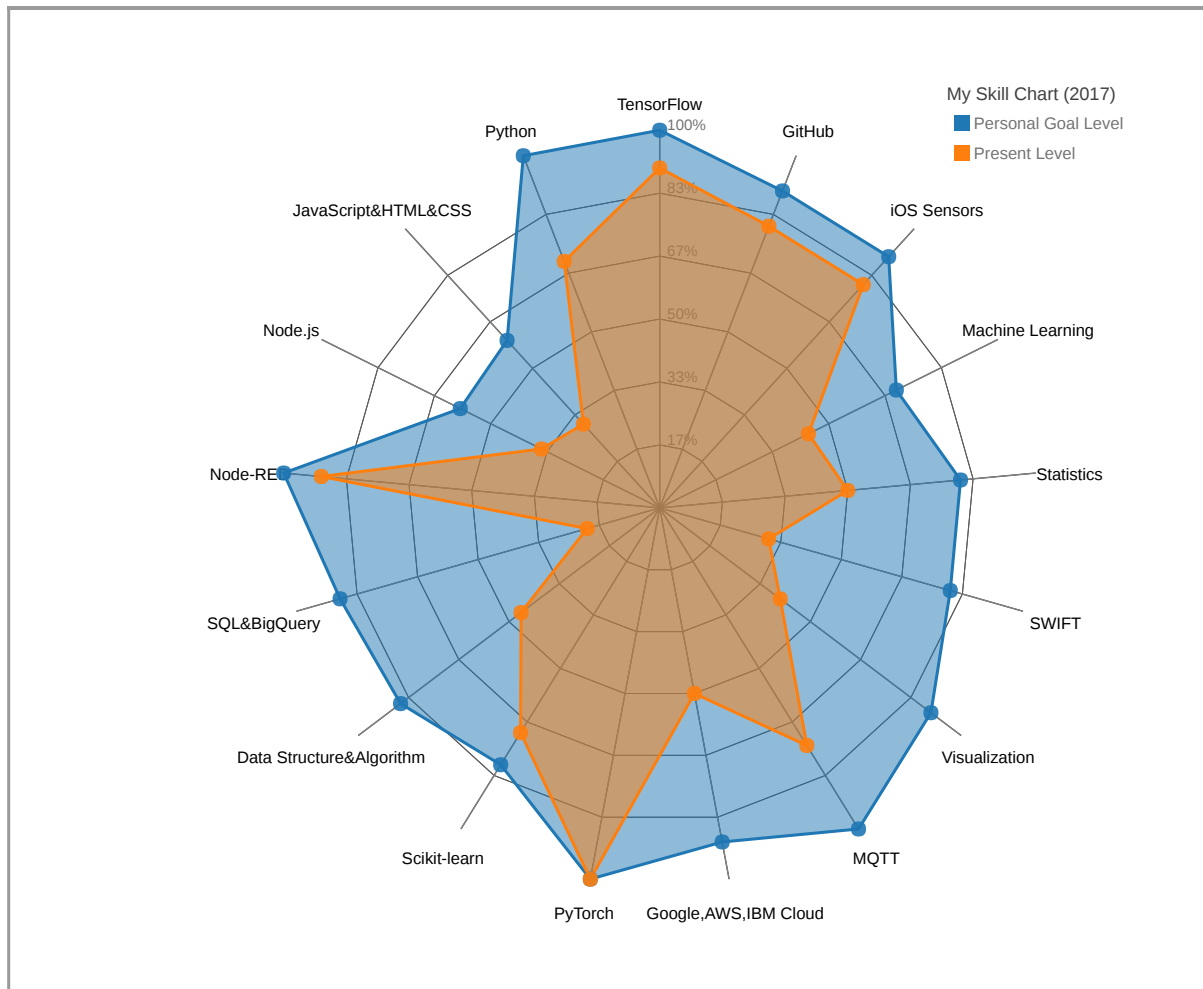
SKILL  
SUMMARY

4 Languages	Web Proگرامing	IoT HW & SW
- English	Level 1	Level 2
- Korean	Data Science	
- Japanese	Level 3	
- Chinese		

SKILL  
CHART

- Full-Stack  
- Data Science  
- My Skill Chart

HTML	TensorFlow	Machine Learning
CSS	Scikit-learn	iOS Sensors
JavaScript	Keras	Swift
Google&AWS&IBM Cloud	PyTorch	Matlab
Linux	SQL	GPS App
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, 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 82 countries' visitors.

### [Stepone Language College, Sydney](#)

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 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 \(Korea Pat: 10-0734438\)](#)

**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 an electronic money.
- Invented a patent of [Oxygen generator for soil \(Korea Pat: 10-0734438\)](#)
- The product 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.

**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:**

- Developed [PID Control For CPU Temperature of Raspberry Pi](#)
- Invented [a MQTT-Gas-Valve For Home Safety](#)
- Developed [Face Recognition System](#)
- Invented [Realtime DeepCounter System \(Deep Learning\)](#)
- Developed [SigFox IoT Sensor System](#)
- Developed [Stock Price Prediction](#)
- Developed [TensorFlow-Powered Vision For Pi-based robot](#)