

# LEE, HAESUNG (STEPHEN)

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## IOS 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 Algorithms 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\(By TensorFlow\)](#), Face Recognition System and Home Security Camera System.

### SKILL SUMMARY

#### 4 Languages

- English
- Korean
- Japanese
- Chinese

#### Web Programing

Level 1

#### Data Science

Level 3

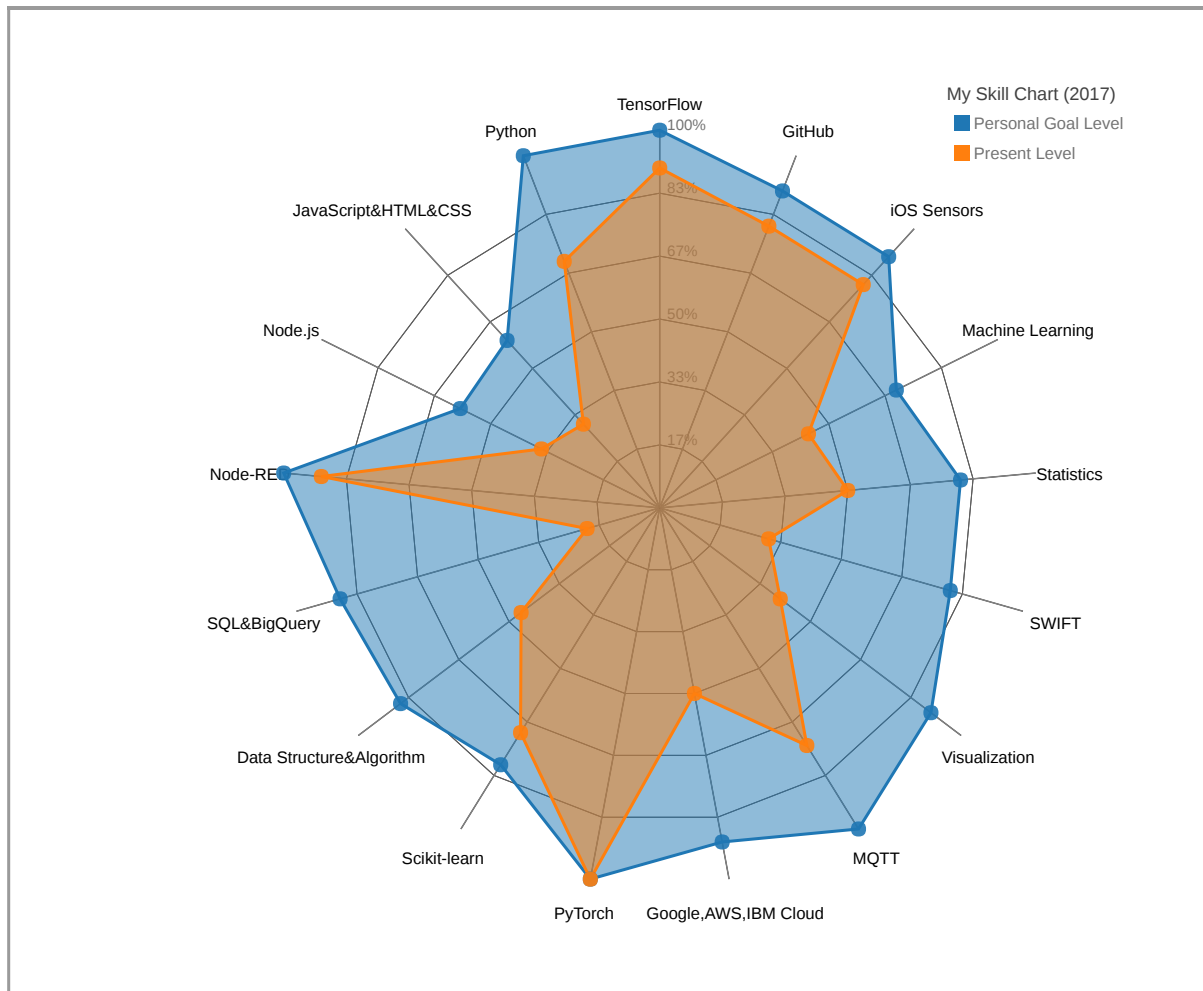
#### IoT HW & SW

Level 2

### SKILL CHART

- Full-Stack
- Data Science
- My Skill Chart

HTML	TensorFlow	Machine Learning
CSS	Scikit-learn	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 159 countries' visitors.](#)

### [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)

**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 Sysetm](#)".
- 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 MOTT](#)
- [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 \(2\)](#)
- [People Detector App](#)
- [Written Letter Recognizer 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\(TensorFlow\)](#)
- Developed [TensorFlow-Powered Vision For Pi-based robot](#)
- [All Portfolio](#)

