

# 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 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.

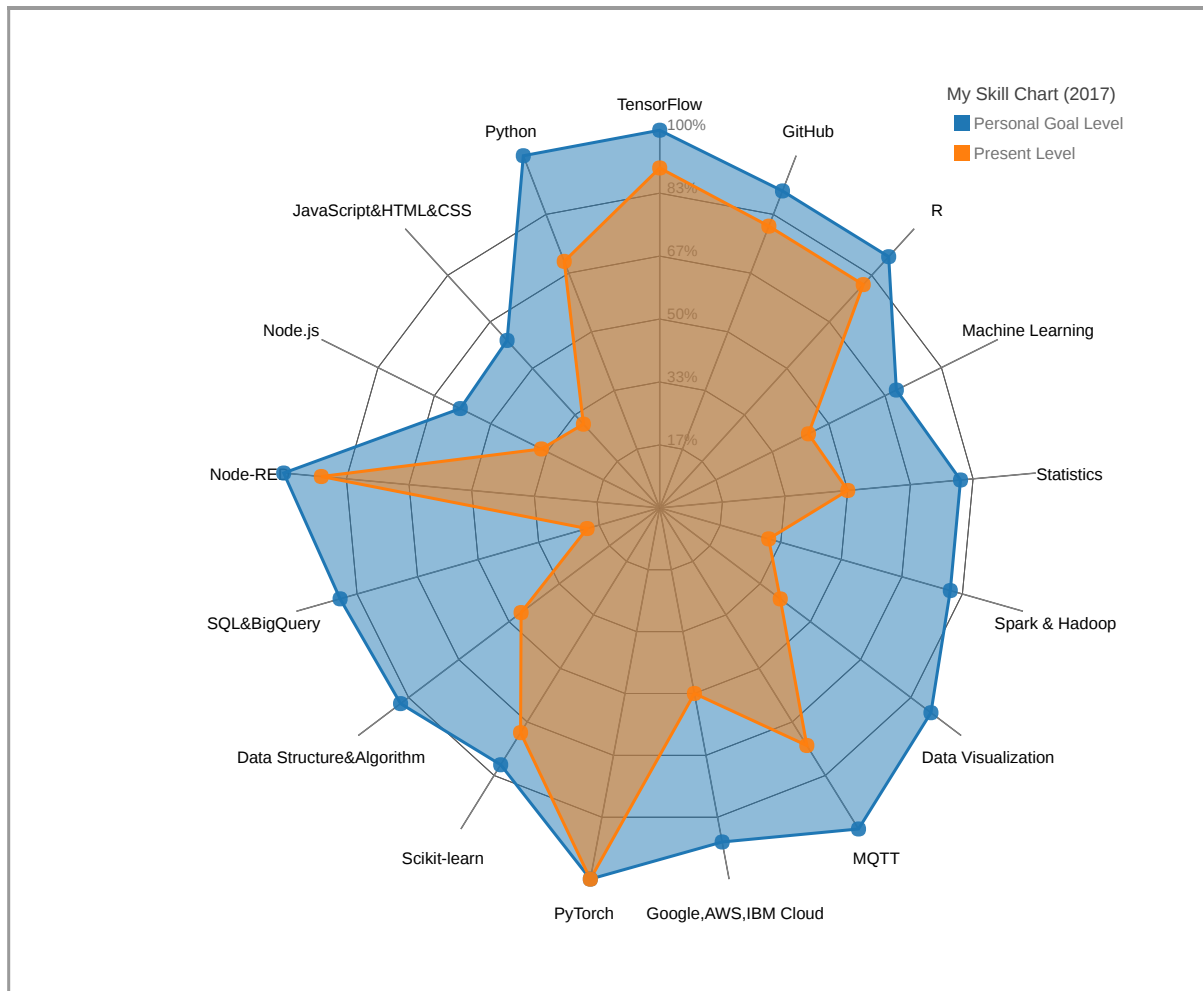
SKILL  
SUMMARY

4 Languages	Web Programing	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	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.](#)

### [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)

- Awarded Korea Ministry Award of [Oxygen Generator System for soil](#)

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## 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
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### [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.
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### [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.
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### [Honeywell 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 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 \(2\)](#)
  - [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](#)
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