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 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.
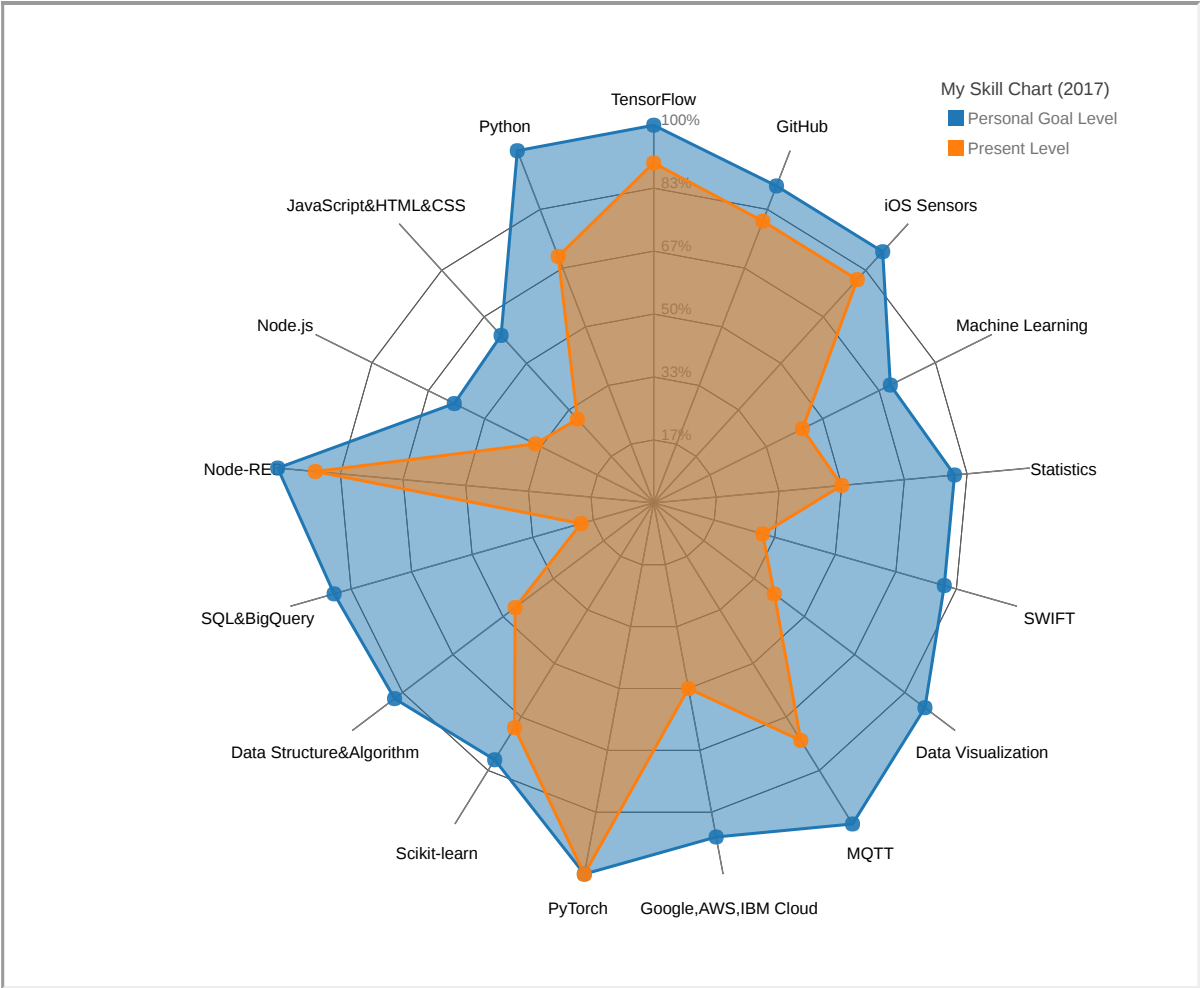

SKILL SUMMARY

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	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

My Skill Chart (2017)
- Personal Goal Level
- Present Level

TensorFlow, Python, JavaScript&HTML&CSS, Node.js, Node-RED, SQL&BigQuery, Data Structure&Algorithm, Scikit-learn, PyTorch, Google,AWS,IBM Cloud, MQTT, Data Visualization, SWIFT, Statistics, Machine Learning, iOS Sensors, GitHub

100% 83% 67% 50% 33% 17%

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

Machine Learning by Stanford University on Coursera
- With Distinction
- License Number:W256TMG3R5H8

July 5, 2016

Statistical Learning by Stanford University on Stanford Online
- With Distinction
- License Number:fc74c29d139a43a091bcd0ea749d56e8

July 20, 2016

The Data Scientist's Toolbox by Johns Hopkins University
- With Distinction
- License Number:AXM8PNVQ3AZU

July 21, 2016

Sydney College of Business and IT, Sydney
- 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.

2015-2017

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

2012-2014

Seoul National University of Technology, South Korea
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).

February 2007

- Awarded Korea Ministry Award of <u>Oxygen Generator System for soil</u>.

EXPERIENCE

- Teacher
- Startup
- Developer
- Engineer
- Publications
- Open Source
- Meetup
- MOOC
- Leadership
- Volunteer
- <u>Portfolio Box</u>
- <u>Certificate Box</u>

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 <u>'Green Can-Money Sysetm'</u>.
- 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, and DCS.

Software Acitivities
2013-Present
Publications
- <u>PID Control For CPU Temperature of Raspberry Pi</u>
- <u>A smart gas valve for home safety by MQTT</u>
- <u>A smart JPEG camera for home security by using M2M Communication</u>

Open Source Communities:
Node-RED||Twilio Python||IoT Python||Python Sense Hat||Data Science Python||NoSQL Python||Python Twitter

MEETUPs:
<u>OzBerry IoT</u>||<u>Sydney IoT</u>||<u>Sydney Python</u>||<u>Big Data Analytics</u>

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

TEAM LEADERSHIP:
- <u>Term 1: Developing the Leader Within You(Hillsong Leadership Evening College)</u>
- <u>Term 2: Developing the Leaders Around You(Hillsong Leadership Evening College)</u>

Volunteer:
<u>Australia Salvation Army</u>||<u>IBM Open Source Helper</u>||<u>Hillsong City Care</u>

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