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), Face Recognition System and Home Security Camera System.

SKILL SUMMARY

4 Languages

- English
- Korean
- Japanese
- Chinese

Web Programing

Level 1

Data Science

Level 3

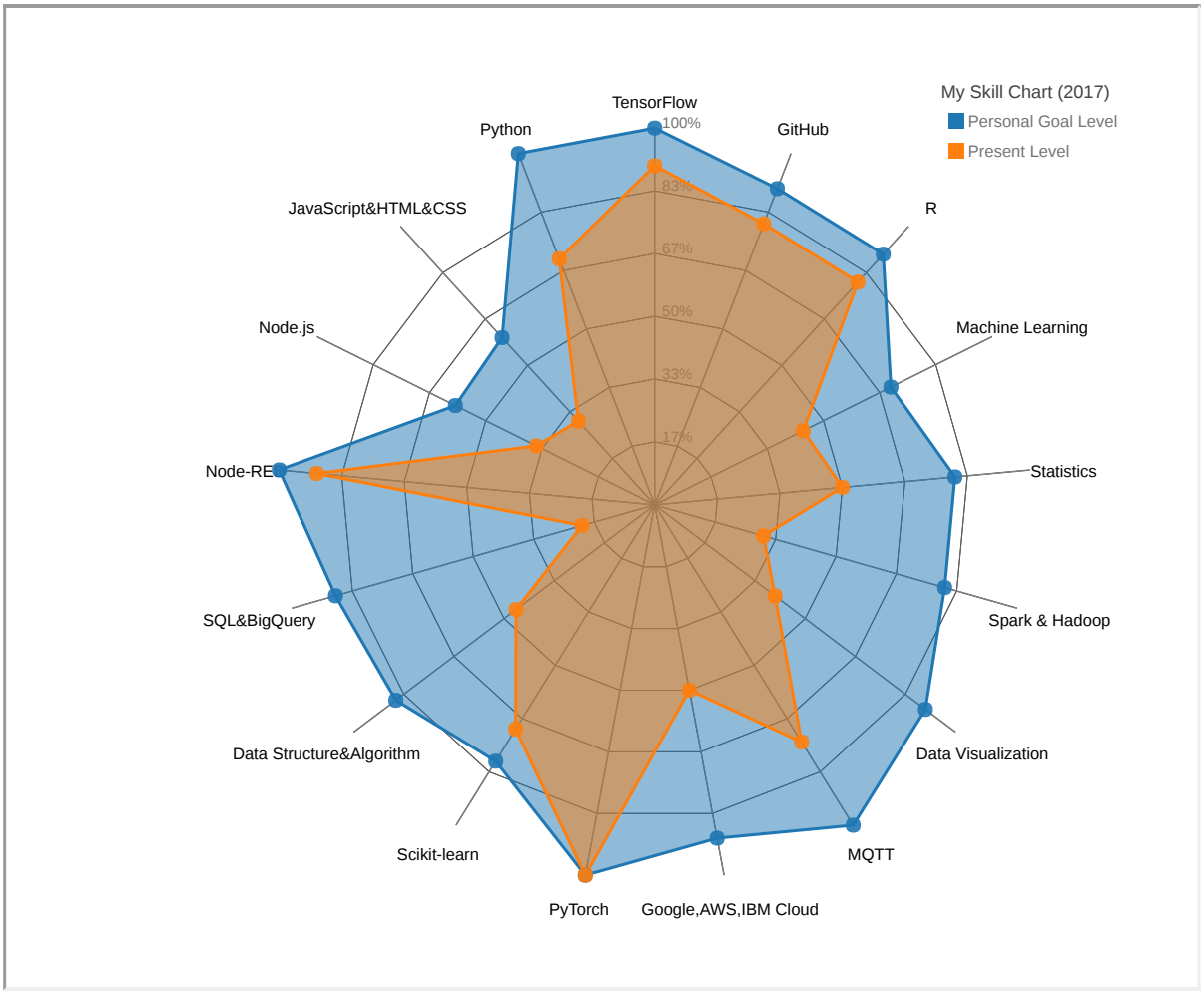
IoT HW & SW

Level 2

SKILL CHART

- Full-Stack
- Data Science
- My Skill Chart

HTML	TensorFlow	Machine Learning
CSS	Scikit-learn	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' visistors.

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)

- 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 prodcut 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 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 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