

# HAESUNG LEE

IOT DATA SW ENGINEER

[2/10 Orwell St, Potts Point, NSW, 2011 \(Crafted GPS Map\)](#)

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## PROFILE

I am a keen IoT inventor as a hobbyist in Sydney and very passionate about IoT and Algorithms such as MACHINE LEARNING, COMPUTATIONAL STATISTICS and so on. Also, I have spent almost every day of the past 15 years making robots or electronic inventions or computer programs.

## SUMMARY OF MY SKILLS

### Web Programing

Junior Level

### IoT HW & SW

Mid - Senior Level

### Data Science

Mid Level

## SKILL CHART

- Full-Stack
- Data Science
- [My Skill Chart](#)

HTML

CSS

JavaScript

IBM Cloud Bluemix

Linux

Python

Node.js

IBM NodeRED

C & C++

GPS & Sensors & PCB

Twilio(Phone Message)

Arduino & Raspberry Pi

Wireless & MQTT

IBM Watson IoT

R

Machine Learning

GNU Octave

Matlab

IBM Cloudant NoSQL

IBM Apache Spark

Computational Stat

## EXPERIENCE

- Open Source
- Meetup
- MOOC
- Leadership
- Volunteer
- Startup
- Developer
- Engineer
- [Portfolio Box](#)
- [Certificate Box](#)

### Personal Software Activities, Sydney

2013-2016

#### Open Source Communities:

[IBM Node-RED](#) | [Twilio Python](#) | [IBM IoT Python](#) | [Python Sense Hat](#) | [Data Science Python](#) | [IBM 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](#)

### [AKASMA](#), South Korea

2010-2011

#### CEO

- Designed a recycling can system to refund a electronic money.
- The product name was called "[Green Can-Money Sysetm](#)".
- Failed my own business for marketing and getting fund.

### [CAS Electronics](#), South Korea

2007-2009

#### Junior Product Developer

- Developed firmware(C&C++) of products: Weighing Controller & Indicator.
- Improved failure rate of production from 30% to 2% by factor of PB.

### Honewell Korea(JaCC Engineering)

2003-2007

#### **Junior Installment Engineer**

- Installed & programmed FA Controllers such as PLC, SCADA, DCS.

### **EDUCATION**

- IT School
- English School
- Bachelor
- Certificate Box

### Sydney College of Business and IT, Sydney

2015-2017

- Learned HTML, CSS, JavaScript, PHP, SQL, Visual Basic.net, Visual C++, C#, Software Testing & Deployment and Copyright Ethics.

### Stepone Language College, Sydney

2012-2014

- Improved my English Skills such as Grammar, Writing, Speaking, English Conversation and Aussie Accent.
- Had a working holiday experience to improve my English Skill.

### Seoul National University of Technology, South Korea

2007-2009

#### **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