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# Yoonsu Park

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## Technical Skills

*Languages:* Python, Java, JavaScript, C, C++, HTML5
*Frameworks/Library:* Tensorflow, Theano, Keras, GraphLab, SFrame, Pandas, Numpy, matplotlib, Scikit-learn
*Machine Learning :* Deep neural network and Convolutional Neural Network, RNN( Recurrent Neural Network ), LSTM( Long Short Term Memory), Q-Learning, Regression, Classification
Other: Project management, Microsoft Consulting Service, MS Windows, MS SQL, MongoDB, Git/GitHub

## Project Experience

**Address image recognition -** *http://blockchain99.github.io/street-address-image-recognition* *November 2016*

- Decoded and recognized the sequences of digits from the natural images of Street View House Numbers through training Convolutional neural networks (CNN) using tensorflow, python
- Coded to prepare image Data, design Convolution Neural Network architecture and optimized the model by parameter tuning
- Enabled to find the housing number of a specific location in a street as a format of continuous multiple digit characters with 94.7% prediction accuracy from test data

**Smartcab driving agent -** *https://blockchain99.github.io/smartcab* *September 2016*

- Coded to move agent from start location to destination using enforced learning such as Q-Learning Algorithm using python
- Designed and coded Q-Leaning agent using Pygame, game engine and tuned the parameters such as learning rate, discount factor, exploration-exploitation relation to get optimal result
- Achieved 97 success to reach the destination out of 100 trials

**Customer segments -** *https://blockchain99.github.io/customer-segments/* *August 2016*

- Analyzed product spending data collected for customers of a wholesale distributors and coded to identify customer segments hidden in the data using unsupervised learning techniques
- Found meaningful relationships hidden in their customer base to be deployed in services and products to best meet the demands or needs of customers

**Student Intervention -** *https://blockchain99.github.io/student_intervention/* *July 2016*

- Implemented the supervised Learning models to predict the likelihood of a student to pass high school final exam and decide the early intervention
- Simulated decision Trees, SVMs, Neural Networks, grid search, selected the optimal model, GaussianNB, in terms of performance and cost, and tuned SVM to set gamma as 0.1.

**Samsung Demand Supply Prediction** *http://www.samsung.com/us/business/* *December 2008*

- Developed with Microsoft SQL BI(Business Intelligence) solution to enable on-demand changes of business management plans and reflected these adjustments on real time basis
- Created Samsung Electronics Business Intelligence System to enhance the demand prediction accuracy for SCM(Supply Chain Management) by more than 20% with Microsoft BI Platform as S/W Architect

**Samsung GSBN -** *https://v3.samsunggsbn.com/ep/index.do?trayIgnore=Y* *March 2005*

- Developed GSBN(Global Samsung Business Network) integrated with the Samsung's Partners
- Developed the purchase forecast system to make optimized amount of products to be delivered, seamlessly integrated with ERP and SCM and PRM(Partner Relationship)
- Led the project as S/W Architect and Project Manager.

## Work Experience

**Teraedu, Inc** –*S/W developer, Co-founder*                Seoul, South Korea | November 2012- November 2008

- Designed and developed On-line education application ( System Architecture Design, System performance tuning, DB Schema design based on MOODLE, PHP , JavaScript).
- Created online education Contents for Mathematics and Algorithm and Programming

**Microsoft** – *S/W Architect, Project Manager*                Seoul, South Korea | *July 2008- July 2001*

- Coded application, designed S/W architecture and led IT(Information and Technology) projects for Samsung Electronics, Hyundai Motors, LG Electronics, SK co
- Developed Enterprise Application Integration for web portal system connected with SAP ERP(Enterprise Resource Planning) and SCM(Supply Chain Management)
- Coded applications for Enterprise systems based on MS windows server, MS SQL, BizTalk Server, MS SharePoint.

**POSCO ICT Co, Ltd** –*S/W Developer*                Seoul, South Korea | *February 2001- March 1999*

- Developed web portal, designed the middleware architecture, for which implemented to POSCO
- Coded human resource evaluation system that incorporated new evaluation and compensation structure

**Hewlett Packard Co. Ltd** – *IT Consultant*                Seoul, South Korea | *February 1997- January 1996*

- Coded Web portal for newspaper to publish news contents.
- Consolidated multiple legacy system with HP Unix server and analyzed network traffic and designed network architecture

**PHILIPS Co, Ltd** – *Developer*                Seoul, South Korea | *January 1996- January 1995*

- Developed Multimedia Software for PHILIPS CD-I(Compact Disk Interactive)

# Education

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|---|---|
| **Udacity -** *Machine Learning Nanodegree* | *November 2016* |
| **University of Washington and offered through Coursera -** *Machine Learning Nanodegree* | *In progress* |
| **Graduate School of Sogang University** –Completion of MBA course | *November 2014* |
| **Carnegie Mellon University , Pittsburgh, PA** – *Advanced Software Engineering Course* | *August 2001* |
| **Pohang University of Science and Technology** – *Master of Science,* Information Technology | *February 1999* |
| **Seoul National University** – *Bachelor of Science , Computer Engineering* | *February 1994* |

# Honors and Activities

- Awarded Samsung IT Symposium Grand Prize for GSBN project(Team award), Nominated as a best case of e-logistics in ASEM(Asia Europe Meeting ) *as S/W architect, Project Manager*                *October 2004*
- Awarded Microsoft Excellence Award                *July 2003*
- Demonstrated professional sailing skill and earned the certificate of **Yachtmaster** accredited by RYA(Royal Yacht Association) in United Kingdom