Yoonsu Park

http://www.patternics.com github.com/blockchain99 linkedin.com/in/yoonsupark

# Work Authorization : US Permanent resident

# **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: Data science, Data analysis, MS SQL, Hadoop, Git/GitHub, Project management

# Project Experience

## Address image recognition

- 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
- Prepared image data, designed Convolution Neural Network architecture and optimized the model by parameter tuning
- Enabled finding of house number of a specific location on a street as a format of continuous multiple digit characters with 94.7% prediction accuracy from test data

## Smartcab driving agent

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

## **Customer segments**

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

## **Student Intervention**

- 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.

## **Supply Demand Prediction**

- 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 Supply Chain by > 20% with Microsoft BI Platform as S/W Architect

## Samsung GSBN

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

March 2005

November 2016

September 2016

# July 2016

December 2008

August 2016

## Udacity

- Reviewed coding of Artificial Intelligence project and Deep Learning project
- Guided to implement AI and Deep Learning system, consulted data manipulation, hyper-parameter tuning and model optimization

# Teraedu, Inc

- 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

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

## POSCO ICT

Seoul, South Korea | March 1999- February 2001

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

# Hewlett Packard Co. Ltd

Seoul, South Korea | January 1996-February 1997

- 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

Seoul, South Korea | January 1995-January 1996

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

## Education

Udacity - Machine Learning Nanodegree University of Washington and offered through Coursera - Machine Learning Nanodegree Graduate School of Sogang University –Completion of MBA course Carnegie Mellon University , Pittsburgh, PA – Advanced Software Engineering Course Pohang University of Science and Technology – Master of Science, Information Technology Seoul National University – Bachelor of Science, Computer Engineering Honors and Activities	November 2016 May 2016 November 2014 August 2001 February 1999 February 1994
<ul> <li>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</li> </ul>	October 2004
<ul> <li>Awarded Microsoft Excellence Award</li> <li>Demonstrated professional sailing skill and earned the certificate of Yachtmaster accredited by RYA (Royal Yacht Association) in United Kingdom</li> </ul>	July 2003

San Francisco U.S | January 2017 - Now

Seoul, South Korea | July 2001-July 2008

Seoul, South Korea | November 2008- November 2012