YOONSU PARK

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Objectives

- Machine Learning Expert : Tensorflow, Pandas, Scikit-learn, SFrame, GraphLab, Numpy, matplotlib and Strong programming skill for Python and Java
- Hands-on experience of Machine Learning, Expertise in Deep neural network and Convolutional Neural Network, RNN(Recurrent Neural Network), LSTM(Long Shor Term Memory), Reinforcement Learning (Q-Learning), classification, regression.
- Udacity Machine Learning Nanodegree in progress
- Completion of Machine Learning course (MOOC from the University of Washington and offered through Coursera) : course of Clustering & Retrieval, course of Classification, course of A Case Study Approach, course of Regression
- Strong and proficient Information and Technology skill through experience in S/W development and System Integration as a Principal Consultant of Microsoft Consulting Services, Project Manager, System Architect , Software developer and programmer based on both MS Windows solutions and UNIX system
- Successful project management experience : Project manager of Samsung Electronics GSBN project awarded as a GRAND PRIZE in Samsung IT Symposium 2004 and nominated as a best e-Logistics case in ASEM(Asia Europe Meeting) 2003
- Web programming Expert : Web Portal programming, Database programming, Distributed Computing and Interface and Integration with BI(Business Intelligence), SAP ERP(Enterprise Resource Planning) , SCM (Supply Chain Management) and existing legacy systems
- Strong network and system management skill, hands-on experience of wide range of system administration and S/W development: MS and UNIX Core Infrastructure (Microsoft Tech, Network, Server/PC, HP-UNIX, LINUX and Security), Application Development Infrastructure, Business Process Infrastructure, Business Application Infrastructure
- In-depth knowledge of Computer Engineering, Business and Mathematics through career and education
  - Master's Degree of Computer Science, POSTECH
  - Engineer's Degree of Computer Engineering, Seoul National University
  - Completion of Advance Software Engineering course of Carnegie Mellon University, Pittsburgh, USA sponsored by Korean Government and Certified PSP(Personal Software Process), TSP(Team Software Process) Project Management accredited by Carnegie Mellon University
  - Completion of MBA of Business school, Sogang University
  - Strong Mathematics knowledge through 3 years experience of Mathematics teaching and contents development in private academy and MOOC (Massive Open Online Course) system development and maintenance.
- Fluent 3 languages (Trilingual - Korean , English and French)
- Profession sailing skill – RYA(Royal Yacht Association) Yacht Master

Skills

- Machine Learning : Tensorflow, Pandas, Scikit-learn, SFrame, GraphLab, Deep Neural Networks, Convolutional Neural Networks, Regularization, RNNs(Recurrent Neural Networks), Model Tuning , Q-Learning, bias/underfitting & variance overfitting, Learning Curves , Model Complexity, Cross Validation , PCA/ICA, Metric Performance,   Model Fitting and prediction , Adaboosting , visualizing data , Clustering , Statistical Analysis , Decision Trees , Regression ,

Neural Networks , Support Vector Machines, Naive Bayes , K-Nearest Neighbors , feature selection
- Programming : Python, Java, JavaScript, C#, C, C++, HTML, PHP
- Microsoft Products: Windows Server, Active Directory, SQL server, BizTalk Server, Office Products, Visual Studio C#,   Microsoft Office, Excel
- IT Infrastructure Optimizing include Network and Security
- Line of Business: ERP, SCM, CRM, KM, Groupware
- Interface Program: BizTalk
- Project Management, Program Management and IT Strategic Planning
- Language (Trilingual): Korean, English, French
- Finance and Business : Accounting, Taxation, Auditing, Business Law, Financial Management, Marketing, Investment, Stock, ETF, Foreign Exchange Trading
- Variety of professional knowledge : Mathematics teaching experience and Liberal Arts knowledge such as French literature. Professional Sailing skill(have a Yacht Master certificate accredited by RYA(Royal Yacht Association) in England)

Work Experience

11/2008-11/2012   TERAEDU Inc., Seoul, South Korea

- Title : CEO
- Responsibility:
    - On-line education S/W development (System Architecture Design, System performance tuning, DB Schema design based on MOODLE, PHP , JavaScript).
    - Online education Contents Development for Mathematics and Algorithm, Web programming
    - Managing Private Academy of Mathematics and Algorithms

7/2001- 7/2008   Microsoft, Seoul, South Korea

- Title: Principal Consultant, Project Manager, S/W Architect, S/W engineer.
- Responsibility: Business Management, Project Management, Microsoft Technology Consulting. S/W architecture
- Infrastructure deployment consulting: Windows Server, Active Directory, System Management Server, Microsoft Operation Manager Server.
- Application development consulting: SQL Server, BizTalk Server, Exchange Server, SharePoint Portal Server, DCOM, Visual Studio
- Enterprise Application Integration software development for SK CO. web portal system connected with SAP ERP(Enterprise Resource Planning) and SCM(Supply Chain Management) system. - Duration : 13 months
- Samsung Electronics Logistics Automation System project : Application S/W development for Enterprise Application Integration among Samsung Electronics PRM(Partner Relationship Management system), Samsung Logistics and Customs Clearance Automation System.
    - Applications integration S/W module and web portal development between SAMSUNG electronics and overseas partner companies and logistics companies and based on MS Windows server , SQL database and BizTalk Server) –duration 8 months
    - Delivery time reduce, cost saving.
- SAMSUNG Electronics GSBN project(Global Samsung Business Network) : Samsung Electronics worldwide collaborative portal system to predict the

optimized demand and supply across the globe, including 24 production subsidiaries, 36 sales subsidiaries, and 20 branch offices to facilitate its global business support, based on MS Enterprise Server such as Windows Server, BizTalk Server, Contents Management Server, SQL Server) as a Project Manager Architect, system development for 3 years

    Business analysis and development for GSBN Project
- o Duration : 06/2003 – 03/2005
- o Job Description : Project Management, Architecture Design and Development of Samsung Global sales portal system. System Development of Interface with SAP ERP and SCM(Supply Chain Management) system. Business Analysis, System Architecture, Web Portal application Development using C# and Java
- o Develop business process integration to enable the Samsung's Partner company to input purchase forecast to make optimized amount of products to delivered to their door, seamlessly integrated with ERP and SCM and PRM(partnership management system).
- o Results :
  - Shared purchase and sell information between Samsung Electronics and it's partner companies are registered and maintained at "one Portal" resulted in the prediction accuracy enhancement for the demand from partner companies.
  - Fast and optimized Business decision through GSBN, which result in cost reduction, business process automation

- SAMSUNG Electronics Demand prediction system (In order to enhance reliability of decision makings, develop highly reliable business management forecast system of BI solution with Data Mining Tool and Dash board , including 'performance and reliability', 'cube write-back' and 'user convenience')
  - o Duration : 01/2008 – 07/2008
  - o Role : Lead Samsung Electronics Business Intelligence   project to enhance Prediction Accuracy for the demands for SCM by more than 20% with Microsoft BI Platform as S/W Architect
  - o Facts : Application development with Microsoft SQL BI(Business Intelligence) solution to facilitate action-oriented BI implementation to enable on-demand changes of business management plans and reflect these adjustments on real time basis
  - o Systematically integrate competitors' information inside SAMSUNG Electronics SCM to support mass amount of data processing on Samsung Electronics' promoted BI(Business Intelligence) platform, which consists of hundreds of TeraBytes of data from ERP and GSBN(Global Samsung Business Network) systems
  - o Develop prediction system for global market movements and worldwide demands for Samsung products using MS SQL Business Intelligence solution
  - o Results :
    - Make it possible to search Big Data in real time, which used to be taken 7 seconds in memory UI, and saved a lot of DB tuning efforts
    - Enable time series prediction and multidimensional analysis to search and find meaningful business information through data mining tool
    - Make it possible to simulate experiment before full development, which result in cost saving , risk reduction and find the optimized model efficiently

- LG Active Directory (Infrastructure Development based on Windows Server) project   as a Program Manager
- HYUNDAI Motor project as a system design and application architecture consulting ,
- Security consulting for Hyosung Co. Ltd.
- Microsoft Consulting for Infrastructure optimizing as a Consultant and/or Project Manager for Korea enterprise customer (Manufacturing, Services industry)
- Lead Core Infrastructure, Application Infrastructure, Business Process Infrastructure optimizing consulting as a consultant, S/W Architect.
- S/W Architect for   (ERP/SCM/CRM and Infrastructure optimization project for enterprise company SK CO. Samsung, LG, and Hyundai Motors)

2/2001 - 7/2001   ECKOREA Seoul, Korea
- Title: CIO
- Responsibility: S/W Architect for B2B solution for Partner Relationship Management solution and Enterprise Application Integration,   S/W Design and Analysis,   S/W Quality Management.
- Java, EJB, CORBA, XML, JavaScript

3/1999 - 2/2001   POSCO ICT Co. Ltd (Affiliate Company of POSCO), Seoul, South Korea

- Title: Senior Researcher of   POSDATA Laboratory,
- Responsibility: Web portal development, middleware design and system architecture design,   infrastructure optimization and network architecture upgrade for POSCO
- Used Tool & Skill : Java, HTML, C, C++, JavaScript, WINDOWS, UNIX, SQL

1/1996 - 2/1997   Hewlett Packard Co. Ltd, Seoul, South Korea

- Title: Consultant of Computer System Organization
- Responsibility: Unix consulting/ network architecture design. Infrastructure consulting, UNIX system performance tuning
- Used Tool & Skill : C, C++, UNIX network configuration, server configuration

1/1995 - 1/1996   Philips Co. Ltd, Seoul, South Korea

- Title: Developer of Multimedia System Organization
- Responsibility: Multimedia Software Development (Compact Disk-Interactive)

2/1992 - 1/1995   Hyundai Merchant Marine Co. Ltd, Seoul, South Korea

- Title: Application S/W developer for Market trend analysis and Freight Pricing Simulation system in Marketing Division
- Trans Pacific Freight System Development, Marketing / Service Contract

Education

- 7/2016- Now : Udacity Machine Learning Nano Degree course

- 6/2016 - 8/2016 : Certificate of Machine Learning Course : Clustering & Retrieval
  : MOOC from the University of Washington and offered through Coursera, SCORE(100%)

(https://www.coursera.org/account/accomplishments/certificate/7X85N47TALEV)

- 4/2016 - 5/2016 : Certificate of Machine Learning Course : Classification
  : MOOC from the University of Washington and offered through Coursera, SCORE(98.4%)
  (https://www.coursera.org/account/accomplishments/certificate/NNE9CYRA2AMT)

- 2/2016 – 4/2016 : Certificate of Machine Learning Course : A Case Study Approach
  : MOOC from the University of Washington and offered through Coursera, SCORE(96.6%)
  (https://www.coursera.org/account/accomplishments/certificate/RDZQK4TBJVTL)

- 2/2016 - 4/2016 : Certificate of Machine Learning Course : Regression
  : MOOC from the University of Washington and offered through Coursera, SCORE(96.9%)
  (https://www.coursera.org/account/accomplishments/certificate/YW2JW3RZ6LTA)

- 11/2013 – 11/2015 : Graduate School of Sogang University
    o Completion of International Finance Major
    o MBA
      – Courses completed : Financial Management , Investment & Trading , Economics, Foreign exchange, Accounting Principles, Intermediate Accounting, Advance Accounting, Government & Non-profit Accounting, U.S. Taxation, U.S. Business Law, Cost Accounting, , Information Technology, Business Environment Analysis, Audit.

- 05/2001~08/2001 : Carnegie Mellon University "Advanced Software Engineering Course" , Pittsburg, USA.
    o Sponsored by Korean Government
    o Course : Software Engineering
      ▪ S/W Architecture, S/W Design, S/W Development Method, S/W Quality Management, Component-based Software Engineering , Testing & Validation, CMM(Capability Maturity Model)
    o 3 months, 50 Hour/Week Full time Course in Carnegie Mellon University. Pittsburg, USA

- 03/1997~02/1999 : Pohang University of Science and Technology(POSTECH), Pohang, South Korea
    o Degree : Master's degree of Science
    o Major : Distributed computing of Computer Information Technology
      – Courses completed : Artificial Intelligence, Computer Programming, Network, Database, Computer Distributed Processing, Algorithm, Computer Architecture, Management Information System.
    o Master's thesis : A component access control method in a bridge-based integrated DCOM(Distributed Component Object Model) and CORBA(Common Object Request Broker Architecture) Environment.

- 03/1988~02/1994: Seoul National University, Seoul, South Korea
        Engineer's Degree of   Computer Engineering

Award and Certification

- Oct. 2004, Samsung IT Symposium Grand Prize for GSBN project(Team award)   - Samsung
    - contributor as a project manager of GSBN project.
- Oct. 2003, Nominated as a best case of e-logistics in ASEM(Asia Europe Meeting)   - ASEM
    - contributor as a project manager of GSBN project.
- Jul. 2003, Microsoft Korea of Excellence Awarded.   - Microsoft
- Nov.2002, SK CO. CEO Award of Appreciation .   - SK CO.
- Certifications
    - Machine Learning Certificate of Washington University through Coursera: Clustering & Retrieval, 2016
    - Machine Learning Certificate of Washington University through Coursera: Classification, 2016
    - Machine Learning Certificate of Washington University through Coursera: A Case Study Approach, 2016
    - Machine Learning Certificate of Washington University through Coursera: Regression, 2016
    - Microsoft Certified Professional (MCP BizTalk Server), Microsoft, Jun2002.
    - Microsoft Solution Framework (Microsoft Consulting Services), Microsoft, 2001.
    - PSP (Personal Software Process), Carnegie Mellon University, Aug 2001.
    - TSP (Team Software Process), Carnegie Mellon University, Aug 2001.