Grace (Hae-Soo) Esther Lee

Current Address

Prime Apt, GwangJinGu, Seoul, South Korea

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Education and Training

Seoul National University Master's in Computer Science, GPA:4.13/4.3(97.3%) Seoul. South Korea Mar 2018 - Present

University of Illinois, Springfield

Bachelor of Arts in Computer Science, Online Degree, GPA: 3.94

Springfield, Illinois Jan 2016 -

Johns Hopkins University Bachelor of Arts in Public Health

Baltimore, Maryland Sep 2007 - May 2012

Technical Skills and Accomplishments

Programming/Languages Python(2017-Present), Java6-8(2014-Present), Android(2016), Javascript(2014, 2017),

Spring(2014-2017), Keras(2017-Present), Tensorflow(2017-Present), D3(2018-Present)

Enjoy unit tests and functional tests

Oracle RDBMS(2014-2015), MariaDB(2016-Present), PostgreSQL(2018-Present), Database Management

MongoDB(2017-Present), SQLite(2018)

Tools DataGrip, IntelliJ, pyCharm, Eclipse, Slack, JIRA, Jenkins, Git, Android Studio, GoCI,

Jupyter Notebook, Spyder3

Language Fluent in English and Korean

Experience

Seoul National University, Database System Lab (dbs.snu.ac.kr)

Researcher

Seoul, South Korea Jan 2018 - Present

Drug Repurposing Through Drug and Adverse Effect Pair Extraction from Published Literature

- Responsible to build a knowledge construction base pipeline for drugs and adverse effects from the published literature with machine learning and natural language processing such as document clustering, named entity
- Python3, Java8, PostgreSQL, Jupyter Notebook, pyCharm, keras, tensorflow, Git, D3, nltk, gensim, D3, spaCy

Samsung SDS, Agile Core Team (www.samsungsds.com)

Seoul, South Korea

Software Engineer

Feb 2016 - Dec 2017

NexShop Micro Service Architecture, Remote Management System

Aug 2017 - Dec 2017

- Responsible as an anchor of the project to develop retail marketing display device management server and provide related APIs along with continuous integration and testing environment
- Java8, Spring Boot, MongoDB, AWS(S3, EC2, Elastic Beanstalk), Docker, IntelliJ, Git, Jenkins, JIRA

NexShop Retail Marketing Display Player

Jan 2017 - July 2017

- Responsible as an anchor of the project to develop web player application for Tizen LFD
- Javascript ES6, Babel, Redux, Webpack, Jenkins, Webstorm, Git, JIRA

Xeed, Fresh Food Pick-up Reservation Service

Dec 2016 - Jan 2017

Develop android application and respective server with continuous integration and testing environment

Java8, Android, Mockito, AWS(S3, DynamoDB), Eclipse, JIRA, Git, Bitbucket, CircleCI

Daegu Bank Android Library with Fido

Aug 2016 - Dec 2016

- Develop android library and server for Daegu Bank utilizing Fido(Fast IDentity Online) alliance
- Java6, Android, Mockito, Spring, JPA, Docker, MariaDB, Git, Go CI, IntelliJ

Samsung Life Sales Support System POC

July 2016

- Develop insurance sales support application for tablet(Window10) utilizing Electron
- Javascript, Git, Electron

Wellness, Mobile Application for Diabetic Patients

Mar 2016 - June 2016

- Develop a mobile application and respective server system for diabetic patients to monitor health condition such as glucose level via Bluetooth connection to a glucose meter
- Java8, Android, Mockito, MySQL(MariaDB), Spring, Git, Go CI

Samsung SDS, Solution Development Group

Software Engineer

Seoul, South Korea Aug 2014 - Feb 2016

Aug 2014 - 1 CO 2010

Electronic Health Record Solution

- Nov 2014 Feb 2016
- Develop common library and Delphi components for all hospital departments
- Delphi, Java6, Oracle 11g, SVN, Git, Jenkins

Samsung Convergence Software Academy

Trainee for Computer Science Track

Seoul, South Korea Dec 2013 - June 2014

- Awarded top final four for project competition as with Real Time Health Monitoring System with Mobile Application for Patients with Chronic Disease and Care Providers
- Java6, Android, Javascript, Oracle 11g, jquery

Personal Project

Medical Data and Machine Learning Group, SeoulAi

Jan 2019 - Present

http://seoulai.com/project/medical-data-and-machine-learning

- Temporal data analysis in MIMIC-III with Sankey diagrams and visualizations
- Python3, psql, D3

Medical Informatics Analysis - Advance course(Asan Hospital, Seoul)

Oct 2018 - Dec 2018

- https://github.com/joyce04/medical_informatics
 - Learn diverse medical informatics analysis technologies from medical images, genomics, and EHR
 - Data analysis project for predicting unexpected readmission of patients with liver diseases

Visualization Cross-Platform Application

Sep 2018 - Present

https://github.com/joyce04/electron_visualization

- Visualize diverse charts and tools for topic modeling and text classification results with D3 and electron.
- Python3, Flask, Javascript, D3, electron

Football Analysis (Winning Goal, Key Performance Indicators)

Dec 2017 - Aug 2018

https://github.com/madigun697/football_data_analysis.git

- Collect football data via crawling and converting PDF files and analyze the impact of the first goal of winning and trends of goals time through statistics and machine learning
- Python3, keras, tensorflow, MariaDB, Slack

North Korean Elite Network Analysis

Mar 2018 - June 2018

Collect information on North Korean Officials via crawling and create an overall network of the society

applying different weights on education, career history, family and more

• Python3, networkX, Selenium, MariaDB

Teaching Assistant Experience

Seoul National University Big Data Academy https://github.com/joyce04/python_database_class

Seoul, Urban Data Science Laboratory Nov 5 - Nov 9 2018

• Big Data Programming hands-on session with Python, Pandas, Numpy, SQLite, MongoDB