

Grace (Hae-Soo) Esther Lee

Current Address

Prime Apt, GwangJinGu,
Seoul, South Korea

glee8804@gmail.com

Education and Training

Seoul National University

Master's in Computer Science

Currently enrolled in Visual Analytics and Advanced Theory in Computation courses

Seoul, South Korea

Mar 2018 - Present

University of Illinois, Springfield

Bachelor of Arts in Computer Science, Online Degree

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

Database Management Oracle RDBMS(2014-2015), MariaDB(2016-Present), PostgreSQL(2018-Present), MongoDB(2017-Present), SQLite(2018)

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

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
- Python3, Java8, PostgreSQL, Jupyter Notebook, pyCharm, keras, tensorflow, Git, D3, nltk

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

Software Engineer

Seoul, South Korea

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), 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
<ul style="list-style-type: none"> Develop android library and server for Daegu Bank utilizing Fido(Fast IDentity Online) alliance Java6, Android, Mockito, Spring, JPA, MariaDB, Git, Go CI, IntelliJ 	
Samsung Life Sales Support System POC	July 2016
<ul style="list-style-type: none"> Develop insurance sales support application for tablet(Window10) utilizing Electron Javascript, Git, Electron 	
Wellness, Mobile Application for Diabetic Patients	Mar 2016 - June 2016
<ul style="list-style-type: none"> 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	Seoul, South Korea
<i>Software Engineer</i>	Aug 2014 - Feb 2016
Electronic Health Record Solution	Nov 2014 - Feb 2016
<ul style="list-style-type: none"> Develop common library and Delphi components for all hospital departments Delphi, Java6, Oracle 11g, SVN, Git, Jenkins 	
Samsung Convergence Software Academy	Seoul, South Korea
Trainee for Computer Science Track	Dec 2013 - June 2014
<ul style="list-style-type: none"> 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 	
UNHCR (The UN Refugee Agency) (www.unhcr.or.kr)	Seoul, Korea
<i>Intern</i>	Feb 2011 - May 2011
<ul style="list-style-type: none"> Responsible for research of media coverage of UNHCR and global refugee issues 	
Personal Project	
Medical Informatics Analysis - Advance course(Asan Hospital, Seoul)	Oct 2018 - Present
<ul style="list-style-type: none"> Learn diverse medical informatics analysis technologies from medical images, genomics, and EHR 	
Visualization Cross-Platform Application	Sep 2018 - Present
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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 	
Visualize Bitcoin Trade Price via Charts	June 2017
<ul style="list-style-type: none"> Request bitcoin trade price from Poloniex and Bithumb via APIs and visualize the trend with jquery and node.js 	

Teaching Assistant Experience

Seoul National University Big Data Academy

- Big Data Programming hands-on session with Python, Pandas, Numpy, SQLite, MongoDB
- https://github.com/joyce04/python_database_class

Seoul, Urban Data Science Laboratory

Nov 5 - Nov 9 2018