SEUNGJAE OH

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EDUCATION

University of California, Los Angeles Graduation: March 2019

- Bachelor of Science in Applied Mathematics, College of Mathematics

SKILLS

- **Programming Languages:** R, Python (NumPy, Pandas), SQL, C++
- **Tools:** Tableau, R studio, Jupyter, Excel, MATLAB, MATHEMATICA
- **Big data:** Data (Mining, Analyzing, Visualizing, Warehousing, Cleaning, Manipulating)
- **Database Development:** MySQL, SQL server, DB2, Oracle
- **Mathematics:** Critical Thinking**,** Problem Solving, Algorithm, Optimization, Modeling, Analysis
- **Statistics:** Descriptive Statistics, ANOVA, Hypothesis testing, Linear regression, A/B testing
- **Languages :** English (Fluent), Korean (Native)

ACADEMIC PROJECT EXPERIENCE (UCLA)

University Course Database Design - DataFest May 2018

- Created a type of Many-To-Many Database which were normalized and inserted by big size of data items
- Linked all the foreign keys into the database with proper SQL statements by using the PHPMyAdmin

Music Library Database Design - DataFest April 2018

- Built a type of Multi-Table Databases by large size of data with Tracks, Artists, Albums, and Genre
- Normalized the tables with the proper MySQL queries in the PHPMyAdmin environment

Big Data Project (The City of Chicago) - Mentor: Prof. Maria Cha August 2017

- Imported datasets from the Chicago Data Portal into the Jupyter Notebook and executed the SQL queries
- Analyzed the relationship between Socioeconomic Indicators, Public Schools, and Crimes in the City of Chicago for the year 2009 to 2012

Mathematical Stats Project (US econ & GDP) - Mentor: Prof. Nicolas Christou July 2017

- Extracted essential Economic Indicators from the datasets and displayed them in a Dashboard on IBM cloud
- Created the Data-Frames and examined the relationship between GDP and unemployment rate

Mathematical Modeling Project - with Prof. Alexey Miroshinkov November 2016

- Monitored and observed eco-system models such as Predator-Prey (Lotka-Volterra), Competition, and Mutualism by using the Mathematica
- Analyzed and interpreted the phenomena through plotting vector fields and isoclines for the phase trajectories

MILITARY EXPERIENCE

Administrative Clerk Republic of Korea Army 2007 - 2009

- Sorted, Classified and Indexed the secured data and documents through the intranet system by using Microsoft Excel and the special platform

VOLUNTEER EXPERIENCE

Mathematics and Physics Tutor Pasadena City College May 2014 – Apr 2015

- Tutored students at the PCC tutoring center for subjects such as Precalculus, Calculus, Linear Algebra, Differential equations, General Physics and Quantum Mechanics