**Daehyun Kim**

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Education

**UCLA – Los Angeles, ca**

**MS in Applied Statistics**

**Part-Time Degree| Sep 2018-Jun 2020 (Expected)**

**University of Washington – Seattle, WA**

**BS in Computational Math**

*Concentration: Discrete Math & Algorithms*

**BS in Mechanical Engineering**

**Double Degrees| Sep 2012-Dec 2016**

Cumulative GPA: 3.7 / 4.0

Quarterly Dean’s List (11 times)

Annual Dean’s List (2 times)

COURSEWORK

* Probability and Statistics (R)
* Data Structures & Algorithms
* Algorithms and Computational Complexity
* Programming Tools (C/Linux/Bash)
* Java Programming I/II
* High-Performance Scientific Computing (Python)

**edx, Inc. (Mooc Platform)**

* Querying with Transact-SQL

**COURSERA (Mooc Platform)**

* Data Visualization and Communication with Tableau

Skills

Sql | Python | Java | Tableau | Matlab | R | C

ETL | Jira | Shell Scripting | Git | Linux/Unix

Microsoft Office (Word, Excel, PowerPoint)

Data Processing | Data Analysis

Data Visualization

Awards/Activities

* Event Coordinator of the KSEA Seattle YG
* KSEA Undergraduate Scholarship, sponsored by Hyundai, 20 recipients in the U.S.|$1,000
* 14th KSEA Mathematics Northwest Champion,

awarded by Washington Governor

* UniBank Special Scholarship, out of 100

applicantsin Washington State|$500

* American Invitational Mathematics

Examination Qualifier (4 times)

Experience

**Moxi works**

**Data Engineer|March 2017– April 2018**

* Created complex SQL queries in PostgreSQL to acquire and interpret large real estate datasets with attention to detail and accuracy.
* Collected, transformed and processed data into required formats utilizing ETL processes for SQL databases.
* Used advanced Microsoft Excel features-pivot tables, VLOOKUP, and charts- to generate analysis reports and influence core business decisions
* Presented and discussed findings with visualizations from tools like Excel and Tableau to a range of audiences across teams in Moxi.

**UW Electrical engineering Renewable Energy Analysis Lab**

**Research Assistant– Professor Daniel Kirschen|Jun 2016 - Dec 2016**

* Conducted a machine learning project on predicting wind power generation.
* Filtered 300+ CSV files of wind sites and coded scripts to generate parameters and features used in predicting wind power using NumPy in Python.
* Evaluated performance of 7 different ML algorithms using Scikit-Learn and created a visualization of the results using MatplotLib in Python.

**UNited States ARMY RESERVE**

**Watercraft Engineer|Apr 2016 - Apr 2022 (Expected)**

* Basic Combat Training, Advanced Individual Training **(Apr 2018 - Sep 2018)**

In Basic Training, served as a student platoon commander to lead 35 trainees in various missions.

* Performed maintenance on Army watercraft and auxiliary equipment on marine vessels with close attention to detail.

Projects

**Senior Capstone Project – Professor Joseph Garbini| Dec 2015 - Jun 2016**

* Operated as a computational designer in a project on balancing an inverted pendulum as part of a five-member team.
* Developed a functioning prototype with a flywheel, a motor, an encoder, and a current amplifier along with coded scripts to control the motion. It successfully balanced upright for 15+ minutes even under small disturbance.

**Group Projects on Math Modeling| Sep 2016 - Dec 2016**

* *Diet Optimization based on Preferences*

Given food nutrients data from Public Health England, found an optimal diet for group members to maximize their preference scores while fulfilling nutrient requirements using Excel, Python, and LPSolve.

* *Multidimensional Scaling of the Species in National Parks*

Given animal species data from 56 national parks in the U.S., calculated distances between each park indicating their similarities in Matlab and created a two-dimensional representation of the distances in R.