

Jinwoo (Roy) Yoon

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EDUCATION

University of California, Berkeley

Berkeley, California

Bachelor of Arts, Data Science (Business/Industrial Analytics); Cumulative GPA: 3.35 / 4.0

May 2023

- **Relevant Coursework:** Data Structures, Data Engineering, Introduction to Machine Learning and Data Analytics, Principles & Techniques of Data Science, Statistical Inference, Industrial and Commercial Data Systems, Foundations of Data Science, Probability for Data Science, Computational Models of Cognition
- **Leadership Award - Cal Alumni Association of UC Berkeley**

August 2018

EXPERIENCES

Climformatics Inc.

Berkeley, California

Backend Developer Intern

August 2022 - December 2022

- Developed an API pipeline on IBM Watson Studio for over 2 million California-based climate variables from 2008 to 2020
- Extracted netcdf4 and csv formatted data from MACA Data Climate Portal with selection of several variables and models
- Successfully converted 500 netcdf4 and csv formatted files to dataframe in order to read and clean data more efficiently
- Contributed to the team by calculating fire weather index for 500 cleaned files to find relative fire danger for bay area district

Bank of America

Plano, Texas

Software Engineer Intern

June 2022 - August 2022

- Designed and implemented a demo version of “deals” mobile app page based on MVP pattern with a navigation flow
- Created service calls and model objects, fetched JSON-formatted data, and rendered the data into table view through Swift
- Performed unit testing and UI testing to validate the behavior of classes of the app and improved its code coverage to 97.3%
- Worked in an agile environment to deliver high quality of the mobile application against aggressive deadlines or schedules

University of California, Berkeley School of Law

Berkeley, California

Undergraduate Student Researcher

January 2021 - May 2021

- Studied how many brands in the marketplace are owned by native entities and discussed how law can protect their ownership
- Visualized locations of 875 trademarks through Datawrapper on maps, also cleaned and organized datasets of trademarks
- Achieved to deliver weekly presentations on cleaned datasets and visualizations of trademarks to research program mentor

Republic of Korea Army

Seoul, South Korea

Squad Leader & Administrative Specialist

October 2020 - April 2022

- Supervised other soldiers in the reserve forces command and responsible to manage 800 reserve forces for annual training
- Successfully committed to aid to civil authorities at COVID-19 screening station and vaccination center for 2 months

PROJECTS

University of California Berkeley ULab Database Design Project

August 2022 - December 2022

- Established a database design for the undergraduate lab organization through building EER diagram and relational schemas
- Uploaded tables into MySQL workbench using the EER modeling feature and wrote relationship view on MySQL
- Discussed interesting queries which would be useful for the client, ULab, being applied with a variety of tools and models

Bitcoin Exchange Rate Converter

May 2022 - July 2022

- Developed an iOS mobile application that shows Bitcoin exchange rate based on a selected currency through Swift
- Used Coin API to extract JSON data of the Bitcoin exchange rate with other countries' currencies based on MVC pattern
- Customized the main page to get the selected country's flag and currency through using delegate and picker view

Prediction on Scores by University of California College Basketball Players

February 2021 - May 2021

- Calculated and compared R-squared, mean squared error, and mean absolute error of machine learning regression models
- Predicted points scored for the next season from the other stats with a random forest model which has accuracy of 79.1%

SKILLS

Programming : Python, Java, SQL, Swift

Library : Pandas, NumPy, SciPy, SciKit-learn, Matplotlib, Seaborn

Database : PostgreSQL, MySQL, NoSQL

Data Visualization : Tableau, Datawrapper, Power BI

Software : Jupyter Notebook, Microsoft Excel, Outlook, Git, Sourcetree, IntelliJ IDE, Xcode, MongoDB, IBM Watson Studio