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 - June 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