Sangwoo (Joseph) Lee

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EDUCATION

Master of Science in Engineering in Data Science   **Expected May 2024**
University of Pennsylvania, Philadelphia, PA

Bachelor's Degree in Computer Science, Minor in Data Science   **May 2022**
University of Virginia, Charlottesville, VA   GPA: 3.97/4.0

PROFESSIONAL EXPERIENCE

Data Analyst Intern   **January 2022 – May 2022**
The BridgeLine, Charlottesville, VA
- Designed and implemented enterprise clinical analysis tools to allow program and case managers to analyze their clinical programs' effectiveness on patients using R and Python
- Performed periodic data audits to ensure the integrity of the over 180 patient's clinical data in the database
- Performed statistical analysis to visualize the performance data of the clinic using R and Python for grant application

Technology Consulting Intern   **June 2021 – August 2021**
United States Air Force
- Consulted Agile Battle Laboratory from Air Combat Command on integrating electromagnetic spectrum communication system with Robot dogs to perform spoofing mission
- Developed an improved front-end user interface of the robotic controlling unit using Figma to integrate the specifications of the Air Force

Teaching Assistant   **February 2021 – May 2021**
Department of Computer Science, University of Virginia
- Assisted teaching Human-Computer Interaction in Software Development
- Managed a class of 60~100 students in interactive activities related to UX design
- Led weekly office hours for students on practices such as contextual inquiry and prototyping

United States Army   **April 2014 – January 2018**
Camp Casey, South Korea / Joint Base Lewis-McChord, WA
Team Leader / Training Room Clerk / Motor Transport Operator / Translator
- Supervised 3~4 associates on maintaining the assigned fleet of ten military vehicles while exceeding standards; managed implementation and ensured safety for personnel and cargo with excellence
- Supported supervisor on coordinating, managing, and monitoring training schedules to meet the combat readiness of the company using Digital Training Management System (DTMS)
- Supported junior level supervisor in communicating with Korean nationals on retrieving inoperable military vehicles during field exercises

RELEVANT PROJECTS

Clustering the Countries by using Unsupervised Learning, RStudio   **Fall 2021**
- Analyzed socio-economic and health factors of the 167 countries to determine the 10 countries that needs the direst need of aid from HELP International Non-Governmental Organization
- Packages used: NbCluster, caret, ggmap, e1071, plotly, and tidyverse

Stock Portfolio Simulation, Jupyter Lab, pandas, numpy, yfinance   **Fall 2021**
- Constructed the most optimized stock portfolio with the highest return to predict the best investment choices
- Extracted monthly price change data of the tickers from the S&P500 by using Yahoo Finance API to create datasets for the analysis

SKILLS

- **Programming:** R, Python, Java, JavaScript, C++, React, SQL, HTML, CSS, LaTeX
- **Technical Tools:** Tableau, Excel, Django
- **Foreign Language:** Korean (native fluency)
- **Other:** Linux (Ubuntu), Mac OS, Windows OS