Jangwon Seo

742-999-2636 | jangwonseo079@gmail.com | linkedin.com/in/jangwon-seo- | seojangwon.xyz

Professional Summary

Data-driven Statistics student at the University of British Columbia with hands-on experience in **ETL automation**, **data modeling**, and **dashboard development**. Proficient in **Python**, **SQL**, and **Tableau**, with a strong ability to transform complex datasets into **actionable insights**. Skilled in designing efficient, well-documented **data workflows** that support **analytics and reporting initiatives** across teams.

Education

The University of British Columbia — Vancouver, BC

3rd Year, Bachelor of Science in Statistics — *Expected Graduation: 2027*

- **Relevant Coursework:** Data Science, Machine Learning, Probability, Statistical Inference, Regression Analysis, A/B Testing, Databases and Algorithms

Projects

ETF Dividend Analysis and Predictive Modeling

- Built Python ETL pipelines to process 10,000+ financial records from 10+ ETF tickers for reporting and trend analysis.
- Implemented an LSTM model in TensorFlow/Keras to forecast dividend payouts, achieving an RMSE of 0.047 and improving reporting accuracy through automated data ingestion and cleaning with Pandas and NumPy.
- Developed a Tableau dashboard visualizing dividend trends and LSTM-predicted values with dynamic filtering and KPIs.

Coffee Quality & Specialty Classification

- Analyzed 1,300+ coffee samples from the CQI dataset to uncover quality patterns across origin, altitude, and processing using EDA.
- Trained regression and random forest models to classify specialty ratings, achieving a ROC-AUC of 0.71. Performed hypothesis testing on the significance of key predictors of quality through ANOVA.
- Built an interactive Tableau dashboard visualizing specialty rates, regional distributions, and feature importance for clear interpretability.

GAN for Composite Generation (User Input-Driven)

- Applied GANs to generate composite images based on user feedback using PyTorch.
- Designed a latent-space optimization guided by user ratings to iteratively improve similarity of output.
- Evaluated GAN performance by optimizing latent vectors toward target images and measuring convergence using Euclidean distance and latent space visualizations in Matplotlib and Numpy.

Work Experience

Contract Web Developer — May 2025 – Present

Remote — *Canada, South Korea*

- Collaborated with clients to design web-based business solutions integrating data analytics and visualization for operational insights.
- Built public API-driven data pipelines using Python to collect, clean, and refresh geospatial and tabular datasets powering interactive dashboards.
- Integrated Web Map Service layers into a dynamic map interface, enabling users to highlight land areas, visualize regional data patterns, and export results to CSV.

Facility Manager — Aug. 2022 – May. 2024

Air Force Academy — *Cheongju, South Korea*

- Led a team of 8 soldiers and automated scheduling using Python, reducing manual workload.
- Implemented constraint validation ensuring fair, transparent shift allocation.

Technical Skills

Languages: Python, R, SQL
Data & Visualization: Tableau, PowerBI, Pandas, NumPy, Matplotlib, Plotly
Tools: Excel, Django, MySQL, Git, Azure, Heroku