

# Jangwon Seo

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## PROFESSIONAL SUMMARY

UBC Statistics student with practical experience in **data preprocessing**, **ETL automation**, and **machine learning model development**. Skilled in building data pipelines and preparing structured datasets for training using **TensorFlow**, **PyTorch**, and **scikit-learn**. Passionate about applying ML to real-world, data-driven systems.

## 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 Forecasting with LSTM Neural Networks 🔗

- Built automated ETL pipelines to aggregate and clean financial data for model training and evaluation.
- Implemented an LSTM architecture in **TensorFlow/Keras**, achieving an **RMSE of 0.047**, demonstrating strong predictive accuracy.
- Optimized model performance with the Adam optimizer and evaluated results using scikit-learn metrics.

### GAN for Composite Generation with User Feedback 🔗

- Trained a GAN using **PyTorch** to generate facial composites from eyewitness feedback.
- Developed a latent-space optimization loop guided by user ratings to improve output resemblance.
- Visualized model performance through feature distribution plots and generated image comparisons.

### PC Gamer Subscription Prediction (Classification) 🔗

- Processed player activity data and tuned a KNN classifier in R for subscription prediction.
- Used cross-validation and accuracy metrics to evaluate model generalization.
- Visualized playtime trends and subscriber behavior patterns using R's ggplot2.

## WORK EXPERIENCE

### Contract Web Developer

May 2025 – Current

Remote

Canada, South Korea

- Worked with clients to design and deliver **web-based business solutions** powered by data automation and visualization.
- Automated **data ingestion and preprocessing pipelines** using Python (Pandas, NumPy) to prepare datasets for ML experimentation.
- Integrated **API-based geospatial data** and engineered features for model training and evaluation.
- Built a **WMS-based visualization interface** for interactive exploration of ML-ready datasets.

### Facility Manager

Aug. 2022 – May. 2024

Air Force Academy

Cheongju, South Korea

- Automated infrastructure scheduling using Python, improving workflow transparency and documentation.
- Led a team of 8 soldiers, ensuring operational reliability and equitable task allocation.

## TECHNICAL SKILLS

**Languages:** Python, SQL, R, C++, Java

**ML & Analytics:** TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, SQL

**Visualization & Tools:** Tableau 🔗, Power BI, Django, Git, Azure, Heroku

**Statistical Methods:** Regression, Hypothesis Testing, A/B Testing, Feature Selection, Cross-Validation