

WONSEUK HER

213-569-4535 • wonseukh@gmail.com • <https://www.linkedin.com/in/wonseuk-her/> • <https://wsher0901.github.io/> •
Ossining, NY 10562

Experience

HistoGenetics Genetic Data Analyst	Ossining, New York 11/2023 - Present
The genetic company pioneering high-resolution HLA gene typing	
<ul style="list-style-type: none">Developed scalable Python algorithm to automatically detect noise in genetic data, increasing data accuracy by 15% and reducing errors by 30% across 300,000 data sets processed weeklyDesigned complex SQL query integrating gene sequence data from 5 separate tables to identify novel sequences, resulting in the discovery of new immune patterns for precise donor matching in patientsAutomated reporting for 13 cross-functional teams by building centralized real-time dashboard (Streamlit, Plotly), improving transparency and accelerating incident resolution for revenue maximizationCollaborated with Lab Director to analyze deviating key metrics, resulting in refined lab procedures that reduced human error and achieved 20% decrease in experiment repetition, minimizing expenses	
DR & AJU Law Group Research Intern	Seoul, South Korea 05/2020 - 07/2020
Top 10 law firm in South Korea	
<ul style="list-style-type: none">Directed team of 6 interns to translate 100+ legal documents weekly, reducing downtime for lawyers by 40% and improving workflow efficiency by 50%, allowing lawyers to focus on strategy developmentConducted case law and market research on retail arbitrage, providing data-driven insights that led partners to adjust pricing strategy to defend against arbitrage	
SUNDOSOFT Business Development Intern	Seoul, South Korea 06/2019 - 08/2019
Software company specializing in spatial big data platform development	
<ul style="list-style-type: none">Engineered data pipeline to process drone-collected GIS data, enabling development of farmer-focused crop surveillance platform with potential reach of 10,000+ clientsDeveloped data pipeline that automated expense reimbursement, eliminating 2-person manual process and increasing efficiency by 40%	

Education

University of Southern California Master of Science in Applied Data Science, GPA: 3.85	Los Angeles, California 01/2022 - 05/2023
University of Southern California Bachelor of Science in Economics and Data Science, GPA: 3.63, Dean's List 2019-2023	Los Angeles, California 08/2016 - 05/2023

Skills

<ul style="list-style-type: none">Programing: Python, SQLMachine Learning: TensorFlow, Scikit-Learn, XGBoost, Keras, Pandas, NumpyBig Data: Apache Spark, Hadoop, PySpark	<ul style="list-style-type: none">Cloud Computing: Google Cloud Platform (Professional Data Engineer, certified by Google Cloud), BigQuery, Vertex AIData Visualization: Matplotlib, Seaborn, Plotly, Streamlit, LookerStatistical Analysis: A/B Testing, Hypothesis TestingDatabase Management: MySQL, MSSQL, MongoDB, Cloud SQLLanguages: English (Native), Korean (Native), Japanese (Native)
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Projects

- Analyzed 522,000 rows of consumer data using the **Apriori** Algorithm, uncovering key purchasing patterns with the potential to drive 20% retail revenue increase
- Developed **Spark-based recommendation system** to forecast 142,000 customer ratings, providing new businesses with the insights needed to predict customer preferences and precise audience targeting