**Jiwan Hwang**

Northern Virginia

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**EDUCATION**

**GEORGE MASON UNIVERSITY,** Fairfax, VA  *May 2019*

* Master of Science in Data Analytics Engineering; concentration-Statistical Analytics

**RUTGERS UNIVERSITY,** New Brunswick, NJ *May 2012*

* Bachelor of Arts, Major: Economics; Minor: Mathematics (Cum Laude)
* The James H. Street Memorial Award in Economics Prize

**SKILLS**

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| **TOOLS** | Python, R, SQL (Oracle, PostgreSQL, MySQL), Tableau, Power BI, Git, Linux Shell |
| **DATA SCIENCE** | Machine learning, Visualization, Predictive modeling, Statistical analysis, Time-series analysis, ETL, NLP, Text analytics, Version control, Scrum (Agile) |

**EXPERIENCE**

**DATA SCIENTIST,** Data Analysis and Forecasting Branch (SDB, OCFO) *April 2021 – Current*

*U.S. Census Bureau, Suitland, MD*

* Developed and deployed an Internal Use Software (IUS) prediction machine learning model with Python to classify IUS and Non-IUS categories, executing the end-to-end model using UiPath RPA on a monthly basis.
* Performed predictive analysis using time-series forecasting in Python for the leave amount rate by divisions.
* Implemented a Budget Variance Tableau dashboard to monitor budget and expenses, as well as a Transaction Level Details dashboard to track the lifecycle of expenses (Commitments, UDOs, Expenses) for stakeholders.
* Developed various finance-related Tableau dashboards for OCFO business stakeholders, such as the E2 Travel, E2 Interface, Vendor Deactivation, and Transaction Level Details dashboards.
* Conducted various data-related tasks including ETL, end-to-end data pipeline development, data engineering, and robotic process automation (RPA) using Oracle SQL, Python, and UiPath.

**SALES ADMIN AND DATA ANALYST (PART-TIME),** Steel Cold Rail *January 2021 – April 2021*

*POSCO International America Corp., Johns Creek, GA*

* Managed all documents and data about importing, selling and delivering cold rolled steel to customers in the U.S., Canada, and Mexico.

**MARKETING STRATEGY SPECIALIST (DATA ANALYTICS)**, Marketing Strategy  *October 2019 – February 2020*

*Johnson Service Group (contracted to Doosan Infracore N.A.)****,*** *Suwanee, GA*

* Performed regression models with economic factors such as building permits and new construction and time series analysis (ARIMA) for market size forecasting of heavy equipment to develop the company’s marketing strategy for 2020.
* Updated and maintained Power BI reports monthly for regional directors and district managers.
* Built, Improved and optimized Power BI dashboards to monitor market share, company’s active coverage in the market, and dealer’s performance score.
* Transformed and loaded the company’s marketing/sales data from multiple data sources using Power Query and perform data modeling using Power Pivot in Power BI.

**ANALYST,** Strategy and Corporate Planning *December 2013 – December 2015*

*KT ENGCORE****,*** *Seongnam, South Korea*

* Researched and reported business environment in IT infrastructure and new energy industry and competitors of the company by studying research reports from global investment banks and consulting firms for the long-term planning (SWOT and 4P analysis).
* Extracted and monitored financial/accounting and cost data from SAP database and analyzed the data by utilizing Excel (pivot table, VLOOKUP and macro) for the business performance reports to summarize 50-100+ on-going projects of 3 divisions (total 29 business units) of the company and the mid-term planning.
* Filed and reported company profile, major shareholder information, financial information to DART-Repository of Korea’s Corporate Filing periodically (quarterly, biannually and annually).
* Collaborated and communicated successfully with other project-based departments as a liaison maintaining and managing the company’s 18 certifications/licenses and the related 150+ certified personnel.

**INTERN,** Credit Guarantee Team  *March 2013 – August 2013*

*Korea Credit Guarantee Fund****,*** *Busan, South Korea*

* Extended and renewed credit guarantees to facilitate the finance of 150+ small and mid-size firms.
* Monitored and managed due dates of credit guarantees for customers.
* Improved customer satisfaction by resolving customer complaints.
* Assisted in credit investigation through actual inspections as a member of the credit guarantee team.

**PROJECTS (MS in Data analytics Engineering)**

* Credit Risk Modeling (logistic regression for Probability of Default) with Lending Club Loan Dataset
  + Goal: to build a logistic regression model using WoE and IV for PD to calculate Expected Loss.
* Capstone Project: IT expenditure reporting modernization based upon TBM framework and FITRA for USAGM’s Voice of America under agile scrum framework using MS Azure, Python, and Power BI
  + Goal: to build up a pilot data modeling/engineering pipeline from data importing to MS Azure server to Power BI for end user (CIO of VOA).
  + Imported the mock dataset into MS Azure server and created Power BI dashboard.
* Credit Card Fraud Detection Analysis (logistic regression, random forest, SVM, XGBoost, and LightGBM )
  + Goal: to compare performance of classification models (with making imbalanced dataset balanced).
* Marketing Mix Modeling statistical analysis project (GLM)
  + Goal: to build up a Generalized Additive Model using SAS to analyze a large pharmaceutical company’s marketing performance.
  + Analyzed a company’s monthly marketing mock data including contributions of various advertisement tactics.
* 2015 Flight Delays and Cancellations Analysis (EDA and linear regression)
  + Goal: to analyze data with visualization and to find relationships between factors.