Big Data Engineer Sunghwan Ki (Danny)

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Experience

PNC | Big Data Engineer

Birmingham, AL Jul. 2019 - Present

[Relocation available]

- Develop the Data Warehouse ETL process by using Python and Linux Shell
- Work on analyzing Hadoop cluster and different big data analytic tools including Python, Hive and Impala
- Implement and automate for job work-flow scheduling and monitoring in test and production environment by Control-M
- Work on the production support for scheduled ETL daily and monthly jobs and investigate and resolve any process errors or code defects
- Work closely with data architecture team for the creation, maintenance, and validation of data dictionaries and schemas to improve the data quality
- Write scripts in Python performing unit tests to ensure highest data quality assurance
- Responsible for data ingestion, manipulation, and transformation of raw and master files per business usecase using several application tools such as Bitbucket, Jenkins, and IntelliJ

Hyundai Powertech America | Data Scientist - Smart Factory

West Point, GA Jul. 2018 - Jul. 2019

- Created a machine learning model with Python that optimize the manufacturing process
- Conducted a data regression analysis of the relationship between irregular usage of parts and production processing condition, achieving a 6% more cost reduction than 2017
- Analyzed machine recalls and attribute them to specific part failures and find methods to avoid such defects

Donwon Autopart Technology Georgia LLC | Sales and Analytics Manager Hogansville, GA Jul. 2015 - Dec. 2017

- Analyzed on vast amounts of complex pricing-related data
- Demonstrated efficiency of 2D barcode adoption in logistics management through data analysis [Since set up the 2D Barcode system, the incident of mislabel and late delivery reduced by 94%]

Kukdo Chemical Co.,Ltd | Purchasing Assistant Manager

Seoul, South Korea Dec. 2013 - Jul. 2015

- Analyzed price proposals, financial reports, market data and other data in the chemical industry using Excel
- Utilized web scraping techniques to extract and organize competitor and supplier data using Python

Lotte Chemical Alabama Corp | Purchasing Specialist.

Auburn, AL Oct. 2011 -Nov. 2013

- Analyzed ICIS and Platts data to negotiate with suppliers to get a fair price and conditions
- Analyzed cost of material to estimate alternatives that satisfied with a limited budget (\$800K)

Education

University of Wisconsin-La Crosse | Master of Science - Data Science

Jan. 2019 - Present

- Cumulative GPA: 3.5 / 4.0
- Relevant Coursework: Data Warehousing, Machine Learning, Data Analysis, Data Mining, Prescriptive Analytics

Fast Campus | Data Science Intensive

Jan. 2018 - May. 2018

- Completed intensive, five-month full-time career accelerator course with 800+ hours of professional training and practicum experience covering the full range of data science practices and tools
- Relevant Coursework: AL/Machine Learning, NLP, AWS, Hadoop, Hive, Statistics

Udacity | Programming Nanodegree - Data Analyst

May. 2017 - Aug. 2017

- Project-based programming credential
- Learned the practice of determining patterns from data to predict future outcomes and trends

Myoungji University | Bachelor of Business Administration

Mar. 2000 - Feb. 2009

• GPA: 3.6 / 4.5

Key Skills

• Programming Language: Python, PySpark, SQL, Linux

• Big Data Platform: AWS, Snowflake, Spark, Hadoop

• Application: Jenkins, Bitbucket, Control-M

• Database: AWS RDS, MySQL

• Analysis: AWS EMR, Hive, Impala

• Toolkits: Git, IntelliJ, JIRA

Data Projects [Portfolio website: http://gooddatadanny.com/]

Vehicle Value Forecast Web Services

[Website: http://3.133.82.223/]

• Built a web scraper to gather data and stored in AWS and XGBoost model to predict the vehicle value

• Tech: Data Scraping & Cleansing, Machine Learning, AWS, MySQL, Flask, Bootstrap, High Chart, Nginx

Predict House Prices | Kaggle Competition

• Found features that have the influence on house values and then predicted it by Ordinary Least Squares Model

• Tech: Data Cleansing & Visualization, Linear Regression, Statistics, Python (Numpy, Pandas, Statsmodel)

Spooky Author Identification | Kaggle Competition

• Text analysis competition. Identify an author from sentences by Natural Language Process and Naive Bayes Model

• Tech: NLTK (Natural Language Toolkit), Naive Bayes Classification, Python (Numpy, Pandas, Scikit-learn)

Digit Recognizer | Kaggle Competition

- Image analysis competition. Identify digits from a dataset of handwritten images by Neural Network using Keras
- Tech: Keras, Convolutional Neural Network, Python (Numpy, Pandas, Scikit-learn)

Certificates

- AWS Certified Developer Associate (Issue date : Jul. 2021)
- AWS Certified Cloud Practitioner (Issue date: Apr. 2021)

Additional Training

- Udemy : Snowflake The complete masterclass (Nikolai Schuler / Dec.2021)
- Udemy: Data Analyst using Sqoop, Hive and Impala (Mohamed F./ Nov.2021)
- Coursera: Data Structures (Alexander S. Kulikov / Jul. 2018)
- Coursera: Java Programming (Susan H Rodgers / Jul. 2018)
- Coursera: Probability and data (Mine / Aug. 2017)
- Coursera: Machine learning (Andrew Ng / Jul. 2017)
- Coursera: Machine learning foundation (Carlos, Emily / Jul. 2017)
- Coursera: Python programming (Charles Severance / Jul. 2017)