Tony Dong-Won Lee

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TECHNOLOGY SKILLS

Java, R, Python, PHP, C
MySQL, MS SQL Server, PostgreSQL, Oracle
GIT, SVN, BASH, Linux

RELEVENT EXPERIENCE

Software Engineer, DC Energy, Tysons, VA   08/2017-present

- Maintaining and upgrading the company's proprietary ETL infrastructure which downloads from 10,000s of sources through web scrapers by fixing bugs, automating manual pieces, consolidating code, and inserting better logic in the parsing engine
- Architecting and designing new data downloading application in the firm's ETL infrastructure by making the new system highly available and easily maintainable / extendable
- Meeting with cross functioning clients to determine business objects of data storage and environment needed for energy trading
- Creating a testing infrastructure to improve reliability of the system and help automate deployment to the production environment
- Supporting analysts by creating solutions for database schema creation and query optimization problems

Data Scientist, Consumer Finance Protection Bureau(CFPB), Washington, DC 10/2016-08/2017

- Performed data analysis on financial data to find patterns and trends in predatory lending practices and summarizing findings and creating visualizations for reports used in legal cases
- Maintained analytical engine used in generating reports used to grade financial institutions
- Designed and developed proof of concept application for the travel department that looks at CFPB's leave data, travel data and financial data to flag employees suggestive of violating the terms of their travel status
- Used machine learning to predict default on disparate credit data

Systems/Operations Analyst, Metron, Reston, VA   06/2016-10/2016

- Maintained and deployed new versions of the Post Mission Analysis Assist tool for the Navy which utilizes machine learning to help classify underwater objects as mines; Tuned the model and improved classification accuracy by about 10%
- Tested and debugged existing tools used in different operations analysis

Research Fellow, Food and Drug Administration, Silver Spring, MD   08/2015-06/2016

- Researched and implemented a probabilistic inversion algorithm to model and validate stakeholder preference in selecting manufacturing sites for the surveillance program
- Recreated the Site Selection Model from SAS to R while updating statistical libraries and creating unit tests

EDUCATION

George Mason University, Fairfax, VA   12/2015
M.S. in Mathematics; **GPA** 3.95/4.0

Rochester Institute of Technology, Rochester, NY   11/2008
B.S. in Applied Mathematics