

Yong-Jin Lee

SOFTWARE & DATA ENGINEER

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Hands on, motivated professional with years of progressive experience in carrying out data-related tasks with the utmost professionalism to achieve targeted objectives. Leverages passion for further career in the industry utilizing broad-based background.

- Tech-savvy person with a track record in undertaking increasing obligations spanning around data analytics and engineering, ETL process implementation, process automation, BI report development, etc., with emphasis on ensuring compliance with set protocols.
- Driven data and software engineer with confidence in relaying creative solutions and understanding large and complex data structures, including procedures, and keen to secure conveyance of quality experience to diversified end-users.
- Multifaceted individual with robust critical thinking capacity, rigorous attention to detail, superb adaptability and patience, logical problem-solving style, a firm work ethic, and a learning and growth mindset.
- Friendly employee who can liaise with service levels through communication, brainstorming, and collaboration to reach goals.

Core Competencies

Data/Databases Management | Data/Databases Engineering & Design | Data/Databases Analysis & Visualization | Data/Database Logging & Debugging | Extract-Transform-Load (ETL) | Relational Databases | Distributed Systems | Source Control Systems | Business Intelligence | Unit Tests & Validation | Computer Science & Programming | Software Engineering | Process Improvement & Automation | Machine Learning | Cloud Computing | Policy & Specifications Compliance | Reports Generation & Documentation | Supervision & Networking | Cross-Functional Cooperation | Technical Writing Skills | Interpersonal & Communication Skills

Technical Specialty

Data Storage/Databases Tools: Teradata (EDW/IDW), DB2, Oracle, Hadoop (HDFS), Cassandra, Microsoft SQL Server

BI Tools: Cognos Analytics, PowerBI, Tableau

Computer Languages: SQL, Spark, Java, Python, R, Matlab, JavaScript, HTML, CSS, Fortran

SQL Query Engines: Presto, Teradata, Impala, Hive, Kusto (KQL)

Supported Tools: VS Code, Eclipse, Git, GitHub, Airflow, SAS JMP, Splunk, IBM SPSS Modeler

Cloud Technologies: Azure, AWS

Eager to Learn: C#, Docker, Kafka, Scala, Redis

Professional Work Experience

📌 GitHub – Remote

Nov 2020 – Present

Software Engineer III

Lead the researching, designing, authoring, and development aspects, including coding, debugging, testing, and troubleshooting.

- Command the construction, oversight, and retainment of new Extract-Transform-Load (ETL) pipelines, data models, SQL/Kusto queries, and data visualizations to convey the highest level of data-user experience.
- Maximize the usage of PowerBI to originate company-wide interactive reports and enable providing quality core metrics to the upper management for the assessment of business capacity for product and service areas.

📌 Accenture Federal Service, Arlington, VA

Nov 2019 – Oct 2020

Data Engineer Specialist

Spearheaded the mapping out of trends in data sets while captaining the curation of algorithms to transform raw data into useful ones.

- Concluded the refinement of data pipelines within the traditional RDBMS and HDFS to aid analysts and data scientists; gained 50%-70%+ reduction in the Extract-Transform-Load (ETL) process run-time and 50%+ decrease in Tableau dashboard data extract size for better data refresh, smooth interactivity, and optimal serviceability.
- Manufactured business intelligence reports and dashboards to ensure the deliverance of timely and accurate data information to governmental stakeholders and the internal project operations team.
- Pioneered a Python script to secure DDL generation, brought functional data, and modeled Excel documents as inputs.

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✔ Navy Federal Credit Union, Vienna, VA

Aug 2017 – Nov 2019

Business Systems Analyst II – Member Intelligence Systems & Reporting

Strategically governed the development and maintenance of the SQL queries, data pipelines, and ad-hoc and automated business intelligence reports for dynamic business units and senior managers while sustaining strict adherence to the regulatory protocols.

- Administered the formulation and enhancement of approximately 30+ custom-Java applications to automate workflows, including the Extract-Transform-Load (ETL) process and scheduled reports.
- Worked hand-in-hand with the fraud analytics team to facilitate the advancement of a near-real-time reporting with the fundamental aim of safeguarding assets valued over \$20M+ within the first-year implementation.
- Served as a UAT tester to multiple technical projects to partake in steering constant business effectiveness.

Other Work Experience

✔ Navy Federal Credit Union, Vienna, VA

Mar 2016 – Aug 2017

Marketing Analyst I/Campaign Developer

Instituted effective data management and mining techniques to bolster the top-level development of creative campaigns while establishing technical feasibility of business requirements, including predicted quantities, for the marketing schemes. Accomplished a multitude of marketing deliverables for platforms such as direct mail, e-mail, and social media to contribute to the continuity of operational productivity.

Education

Master of Computer & Information Technology (GPA: 3.84)

University of Pennsylvania – Online, Philadelphia, PA | In Progress

Graduate Certification in Data Science (GPA: 4.0)

George Mason University | May 2018

Bachelor of Arts in Mathematics (Concentration: Finance)

University of Virginia, Charlottesville, VA | May 2014

Certificates, License, & Training

Nanodegree in Data Engineering

Udacity – Online | Aug 2021

Microsoft Azure Fundamentals Certification

Microsoft | Aug 2021

AWS Cloud Practitioner Certification

AWS | Aug 2020

Achievements & Awards

Sustained Superior Performance Award

New Federal Credit Union | Aug 2018, Aug 2019