

EDWARD KONG

eddiekong13@gmail.com | (732) 325-5055
New York City

PROFESSIONAL PROFILE

Data Engineer and Developer with **4 years of experience** in designing, developing, and delivering data solutions. Proven success of end-to-end project delivery, both as a team contributor and as a leader, working with stakeholders and cross-functional teams. Exceptionally skilled in **SQL** and **Python**.

EXPERIENCE

Deutsche Bank

New York, NY

Data Engineer, Developer

Dec 2021 – Feb 2023

- Managed and led a team of 3 developers in the reengineering and development of ETL pipelines
- Enhanced existing processes with SQL and Python scripts to eliminate manual data manipulation, resulting in a 20% reduction in errors related to data quality
- Revamped workflow orchestration to standardize the execution platform and dependencies, significantly improving data reliability and completeness. This initiative eliminated 4 hours of daily manual overhead and increased data availability from 95% to 100%
- Utilized Python ML strategies to enhance Risk Indicator models, reducing false negatives/positives alerts

Data Analyst

Oct 2020 – Oct 2021

- Established and managed a Tableau Server project space within a Hadoop ecosystem containing 40+ reports used to support company workflows and ensure compliance with financial regulatory standards
- Utilized Tableau APIs in Python to automate metadata and data dictionary documentation extraction, increasing productivity by providing a centralized resource for development, testing, and end user support
- Coordinated business, development, and product teams to integrate Tableau and Control-M, enabling precise resource scheduling across discrete systems and resulting in a 90% reduction in report and data downtime
- Acted as the highest level of support to address the most urgent and critical data, server, and privacy issues, ensuring the integrity and security of critical systems and data

Lifion by ADP

New York, NY

Application Developer

Mar 2019 – Mar 2020

- Built an award-winning application suite, StandOut, focused on improving employee engagement
- Designed efficient and scalable big data architectures and migrated pre-existing data using scripts and APIs
- Developed utilization metric visualizations and extrapolated data to improve application functionality
- Oversaw release handoffs and collaborated with users/clients to provide ad-hoc support and gather feedback

PROJECTS

Dex Chess Engine

github.com/edwardkong/Dex

Technologies: Python, AWS

2023 – Ongoing

- Designed a chess engine from scratch using Python for game management, search, and evaluation
- Implemented advanced techniques for memory management and performance optimization including bit mask representation, alpha-beta minimax search, Zobrist hashing, transposition caching, quiescence search
- Integrated with AWS Lambda for scalable, serverless compute and UCI protocol for API communication
- Currently 1400 rated while searching a depth of 6 moves, judging on average 10m possibilities/s

EDUCATION & CERTIFICATIONS

Bachelors in Computer Science

New York, NY

New York University, Tandon School of Engineering

Sept 2014 – Dec 2018

AWS Certified Cloud Practitioner, Amazon Web Services, 2023

Tableau Desktop Specialist, Tableau, 2021

SKILLS

Programming: Python, NumPy, SQL, GraphQL

Technologies: Hadoop, Hue, Hive, Impala, Kafka; Oracle, MySQL, PostgreSQL; Control-M, Airflow; Tableau; AWS

Practices: ETL, Relational Databases, Database Design, Data Modeling, Data Visualization, Machine Learning, Agile