Christopher McKenzie

chris.mcke876@gmail.com | LinkedIn | GitHub
New York, NY

Education

B.S. in Computer Science
Western Governors University — September 2025
B.S. in Mechanical Engineering
University of Delaware — May 2021

Career Objective

Computer Science graduate and Mechanical Engineer pivoting to data science / ML. Hands-on with Python, Django, and scikit-learn; experienced in building data pipelines, training and evaluating models, and visualizing results. Seeking entry-level data science / ML roles.

Technical Skills

Languages: Python, Java, C++
Data & ML: pandas, NumPy, scikit-learn, Matplotlib, Seaborn, model development, train/test
Backend & Web: Django, REST patterns, HTML/CSS
Databases & Tools: SQLite, PostgreSQL, MySQL, Git, Docker, PyCharm/Intellij, PyTest
Foundations: Data structures and algorithms, Big-O analysis

Projects

Tennis Match Prediction Model | Python, Django, scikit-learn, Matplotlib, pandas, NumPy
https://github.com/chalrees876/tennisPrediction

- End-to-end web app that stores match data in Django, engineers features with pandas, trains a logistic-regression baseline in scikit-learn, and displays evaluation charts and per-match win probabilities in the UI.
- Designed relational models for players, tournaments, and matches with integrity constraints and efficient queries.
- Built a Python pipeline with pandas/NumPy; trained with reproducible splits and generated evaluation artifacts.
- Implemented model persistence and an inference path to surface predictions alongside match records.

Optimized Package Delivery System | *Python, Hash Tables, Algorithm Design*
https://github.com/chalrees876/Truck-Delivery-Optimization

- Implemented a package-delivery routing solution using a greedy nearest-neighbor heuristic over a graph of addresses.
- Built a custom hash table for fast package lookups and updates; analyzed average/worst-case behavior and collisions.
- Represented the road network with adjacent lists and a precomputed distance matrix.
- Performed Big-O analysis, instrumented runs, and documented trade-offs versus exhaustive search.

Professional Experience

Mechanical Engineer II
SSOE — *New York, NY | Feb 2022 – Present*

- Design HVAC and piping systems for manufacturing facilities, focusing on energy efficiency and cost reduction.
- Conduct system simulations and static pressure calculations to validate performance
- Coordinate with software and architectural teams, applying cross-functional problem-solving and agile planning.
- Produce clear technical documentation and present project updates to clients
- Translate client requirements into actionable engineering and system designs.