Alvin Lee

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EDUCATION

New York University   **May 2023**
B.A. Mathematics and Computer Science   New York, NY
Major GPA: 3.6/4.0 | Cumulative GPA: 3.4/4.0
Relevant Coursework: Data Structures, Basic Algorithms, Computer Systems Organization, Operating Systems, Linear Algebra, Discrete Math, Real Analysis, Theory of Probability

TECHNICAL SKILLS

Languages: Python (Excellent), SQL (Excellent), Julia (Proficient), Java (Familiar)

Machine Learning: NumPy, Pandas, Scikit-learn

PROJECTS

Predictive High School Acceptance

- Identified primary factors of a student being accepted to one of New York City's specialized high schools from 594 middle schools
- Pruned department of education data and built a predictive model using machine learning in Python to determine prospective acceptance
- Tools used: Python, pandas, scikit-learn, matplotlib

EXPERIENCE

Data Engineer, *PepsiCo*   **May 2022 – Aug. 2022**

- Moved and tested over 50 data pipelines to optimize cloud migration
- Created a tableau dashboard that displayed the performance of various data pipelines by importing metrics with SQL to assist in reducing pipeline runtime.
- Reduced the time to diagnose the cause of abnormally long runtimes by 50%.
- Collaborated cross functionally to create the most effective data visualization.

Linear Algebra Grader, *New York University*   **Sept. 2021 – Present**

- Assist professor with grading assignments and providing individual feedback
- Present weekly observations about student progress to prepare for following lessons
- Established a new and efficient method to grade coursework that led to an increase in productivity and efficiency

Teacher, *Learn Horizons Online*   **Sept. 2020 – Sept. 2021**

- Developed and taught a full-year high school level geometry curriculum in one semester
- Worked with students weekly to create lesson plans catering to their unique needs
- Designed independent thought-provoking homework problem sets for each student
- Provided one-on-one coaching sessions for students preparing for high school math class exams