Alex Chen

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EDUCATION

New York City College of Technology, CUNY   **Brooklyn, NY**
Bachelor of Science in Data Science   *06/24*
- GPA: 3.8/4.0, Dean's List for 3 semesters, CUNY Service Corps Alumni
- **Relevant Coursework:** Data Structures, Database Fundamentals, Information and Data Manage II (Python), Artificial Intelligence, Machine Learning for Physics, Linear Algebra, Probability and Statistics I

TECHNICAL SKILLS

Languages: Python, SQL, HTML, CSS, JavaScript, TypeScript, Java, Bash, R

Libraries/Frameworks: Pandas, NumPy, Matplotlib, Seaborn, React, Mocha, Scikit-learn, SciPy

Technologies: Git, GitHub, Jupyter Notebooks, Excel, Data Studio, Tableau

PROGRAMMING PROJECTS

Reddit Client App - Project Page   *08/22*
- Created an interactive Reddit client application that retrieves over 50 posts and comments from Reddit using HTML, CSS, JavaScript, and React.js to deepen understanding of React and the virtual DOM
- Constructed a wireframe and component tree for the application within Figma in preparation for development

Biodiversity in National Parks Analysis - GitHub   *05/22*
- Analyzed 30,000 data points using python libraries, Pandas, SciPy, NumPy, Seaborn, and Matplolib, to answer questions about different species in 4 national parks and the 191 endangered species within the parks
- Utilized chi-squared tests to see statistically significant differences in conservation status rates among 7 different groups of species

Manhattan School District Standardized Testing Analysis - GitHub   *05/22*
- Summarized 2 data sets with a total of 5,000 points of data using Pandas, Seaborn, and Matplotlib libraries within python, to understand how exam scores have changed over a 6-year period

RELEVANT EXPERIENCE

CUNY Tech Prep   **New York, NY**
Data Science Fellow   *07/22 - Present*
- Selected for a competitive year-long technical and professional development program for CUNY computer science majors to learn in-demand technologies and master professional soft skills

The City University of New York, CUNY Conserves Team   **New York, NY**
Energy Technology Intern   *07/22 - 08/22*
- Tested and improved an import app with the lead software engineer resulting in faster speeds by over 20%
- Developed a Python script to clean raw data and create a report that can be referenced, saving over 15% of time
- Implemented unit tests using Python to ensure that code was written correctly before deploying to production
- Utilized Python to create sample data with over 5000 data points used in testing an Excel workbook app
- Reviewed over 30 test cases of an application and provided feedback and possible improvements to the team

New York City College of Technology   **Brooklyn, NY**
Undergraduate Researcher   *05/22 - 06/22*
- Used an online resource of interview questions to create case studies for tech companies which contains tables with data, interview questions, and answers in Python and SQL
- Developed a pipeline for searching details about interview questions for City Tech CST faculty and students
- Extracted data points from an online resource of interview questions and conducted several case studies

The Urban Assembly   **New York, NY**
Operations & Data Intern   *03/22 - 05/22*
- Identified opportunities for improvement within the data science process over 12 different data sources
- Constructed data visualizations for easier and faster access to information for members across 3 different teams
- Analyzed over 10,000 data points across 3 departments to help better plan resources placement
- Streamlined and maintained the usability of 10 data sets across different departments

SUPPORTING EXPERIENCE

EBC High School   **Brooklyn, NY**
Teacher Aid   *07/21 - 08/21*
- Enhanced student's understanding of high school mathematics through clear examples of patterns within math