

Alex Chen

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EDUCATION

New York City College of Technology, CUNY - Brooklyn, NY

June 2024

Bachelor of Science in Data Science | GPA: 3.8

Relevant Coursework: Data Structures, Database Fundamentals, Artificial Intelligence, Machine Learning for Physics, Information and Data Management, Non-Relational (NoSQL) Technologies, Object Oriented Programming in Java

TECHNICAL SKILLS

Languages: Python, SQL, HTML, CSS, Sass, JavaScript, TypeScript, Java, Go, Bash

Libraries/Frameworks: Pandas, Matplotlib, Scikit-learn, React, Jest, TensorFlow, Node.js, Express, Supertest, Bootstrap

Technologies: Git, GitHub, Jupyter Notebooks, Postgres, MongoDB, Redis, Figma, Supabase, Excel, Neo4j, Tableau

EXPERIENCE

Develop for Good - Software Engineer | Stanford, CA (Remote)

April 2023 - Present

- Spearheaded the design and implementation of an ELT pipeline alongside a team of 8 engineers, utilizing Python, SQL, and Apache Airflow, facilitating the movement of data to a centralized data warehouse and enabling holistic data views
- Collaborated closely with the team and clients to establish a modern data stack based on the client's requirements to provide insights for informing product, content, and technical decisions to expand the client's global reach

The City University of New York - Energy Technology Intern | New York, NY

July 2022 - Aug 2022

- Led End-to-End testing for an Excel workbook application by developing and executing comprehensive test plans using Python, resulting in faster processing times by over 20% and a significant reduction in application crashes
- Developed a Python script that automates data processing of raw data with over 100,000 data points into a report that can be referred back to later, saving time manually querying data by 50% for 2 analysts
- Accelerated and automated the testing process by creating a Python script to generate more than 5000 sample data, facilitating End-to-End testing of an Excel workbook app
- Improved software reliability by implementing comprehensive unit tests using Python, effectively validating the functionality of the Django application prior to deployment to production

The Urban Assembly - Operations & Data Intern | New York, NY

Mar 2022 - May 2022

- Constructed interactive dashboards by using Google Data Studio for faster access to information for 3 teams
- Analyzed over 10,000 data points across 3 departments enabling informed decision-making on resource placement

PROJECTS

Job Application Tracker Web App - [Github](#)

- Developed a full-stack web app using TypeScript React and Express that allows users to manage items in their job tracker while seeing the data about the roles through data visualizations
- Built a web application's backend, utilizing PostgreSQL and Express.js to store role information and to create a RESTful API for client-server communication
- Implemented GitHub Actions workflows for CI/CD, enabling rapid and reliable delivery of new features to production
- Constructed unit tests and integration tests with React Testing Library and Jest, achieving 70% code coverage and improving overall reliability and quality for end users

Portfolio - [Project Page](#)

- Designed and developed a portfolio website using React and Styled-Components showcasing current and past projects
- Constructed unit tests using the React Testing Library and Jest, achieving 100% code coverage
- Utilized GitHub Actions to automate the process of building and deploying a portfolio website, enabling faster and more efficient updates to the website

Emotion Detection Web App - [GitHub](#)

- Constructed a web application in a team of 3 that predicts emotions within a piece of text using natural language processing
- Implemented Multinomial Naive Bayes Classifier using Scikit-learn and NLTK with an accuracy of 88%
- Deployed an interactive web application through Streamlit Community Cloud

Reddit Client App - [Project Page](#)

- Created an interactive Reddit client application using HTML, CSS, JavaScript, and React that lets users select subreddits and view over 50 posts and comments within them in a simple format
- Constructed a wireframe and component tree for the application within Figma in preparation for development
- Deployed an interactive front-end web application through Netlify