Anthony Zhu

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EDUCATION

City College of New York, City University of New York (CUNY)　　　　　　　　　　New York City, NY
Bachelor of Science in Computer Science　　　　　　　　　　　　　　　　　　　　　　　June 2024
Dean's List, Grove School of Engineering at The City College of New York　　　　June 2022**,** June 2023
Relevant Coursework:
Data Structures, Algorithms, C++ Programming, Database Systems, Software Design, Software Engineering, Data Visualization

SKILLS

- **Programming:** Python, C++, Java, HTML, CSS, Javascript, C, SQL, Scheme/Lisp, Assembly, Git
- **Machine Learning:** TensorFlow, Pytorch, DeepNote, Google Colab, Jupyter Notebook, Pandas, NumPy, SciKit-Learn, PlotlyExpress, Matplotlib
- **Technologies:** PostgresSQL, MongoDB, VS Code, GitHub, Bootstrap, Flask, MSSQL, MYSQL, Microsoft Office, Power Automate, Anaconda
- **Certifications:** CPR & AED (For adults and Children)
- **Spoken Languages:** English (Fluent), Cantonese (Basic/Intermediate)
- **Additional Skills:** Statistics, Regression, Analysis, Clustering, Software Development Life Cycle

EXPERIENCE

NYC Department for the Aging - Data Analyst/Research Specialist　　　　　　　　Feb 2024 - Present
- Worked with staff on research projects related to older adult populations and workforce development in NYC.
- Developed predictive models and applied Churn analysis with agency's data in order to highlight potential issues.
- Utilized Python, Pandas, Numpy and QGIS to analyze internal data and provide insights into aging population program performance and participation.
- Provided recommendations and suggestions for improving client participation, stakeholder engagement, and socio-economic outcomes.

Codepath - Tech Fellow - Technical Interview Prep (TIP)　　　　　　　　　　　　Jan 2024 - May 2024
- Effectively managed breakout room groups, supervising cohorts of multiple students, throughout the course duration. Demonstrated leadership by promoting active engagement within pods, facilitating camera usage, screen sharing, and fostering collaborative environments. Provided comprehensive support to students, addressing content-related challenges during class sessions and office hours, thereby enhancing overall learning outcomes.

PROJECTS and Additional Experience

CTP project - EmploymentReady https://employmentready.streamlit.app/　　　　Oct. 2023 - Dec. 2023
- Collaborated in a team of 3 to develop an app that determines a user's percent chance of being hired in a software engineering role based on the technologies and skills they have while also suggesting additional skills that would further improve the chances of employment.
- Utilized Sci-Ki- learn to create a gradient boosting predictive model that was trained on employment datasets to highlight desired skills to predict user employability based on a user's input.
- Developed a Python backend to integrate the Streamlit application with the predictive model to then allow for user interaction.

Joe's Restaurant github.com/azhu000/CSC322-SWE-Group-Project as Fullstack SWE　　Feb 2022 – May 2022
- Collaborated to develop a restaurant ordering website utilizing HTML, CSS, Bootstrap, Python, SQL and Flask.
- Developed a fully functional login system categorizes each user and limits features depending on type of user.
- Worked on several logic algorithms for the website and helped debug and optimize SQL server database.

CUNY Tech Prep - Student Cohort 9 - Data Science Track　　　　　　　　　　　　Sept 2023 - Present
- Selected for a competitive data science fellowship with students from across the 11 CUNY senior colleges where Fellows create technical projects using tools such as Python 3, Jupyter Notebooks, Pandas, Numpy, Scikit-learn, and SQL.
- Participated in weekly courses and learned industry best practices for exploratory data analysis (EDA), feature engineering, data collection and processing, statistical modeling, data visualization, machine learning techniques, data science process, and big data.

Google G-Swep via Basta　　　　　　　　　　　　October 2023 - Dec. 2023, March 2024 - Present
- Engaged in weekly mentoring sessions facilitated by a seasoned Google software engineer, focusing on intricate technical interview strategies and methodologies.
- Explored diverse coding paradigms, fostering a profound comprehension of fundamental programming principles and refining coding practices for optimized algorithmic solutions.

CodePath Technical Interview Prep (Advanced)　　　　　　　　　　　　　June 2023 - August 2023
- Participated in a 10-week summer course that delved into topics of advanced data structures, algorithms, and technical interview questions. Collaborated with group members to discuss potential solutions of LeetCode problems using the UMPIRE method.

Leadership and Activities

Launch Science + Math Centers - Teacher　　　　　　　　　　　　　　　　　　Sept 2023 - Present
- Led instruction in Scratch and Python programming for younger students, fostering their technical acumen while cultivating a fervor for mathematics and other STEM disciplines. Guided and mentored peers, ensuring their comprehension and igniting their enthusiasm for the subject matter.

Apex for Youth - Teacher's Assistant/Lead Teacher　　　　　　　　　　　　　Sept 2022 – Jun 2023
- Demonstrated adept leadership by orchestrating engaging and instructive sessions for elementary afterschool programs, overseeing groups of up to 16 students. Spearheaded curriculum development for both Arts & Crafts and STEM disciplines, crafting dynamic lesson plans tailored to each group's educational needs and interests.