Michael Cai

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EDUCATION

New York University, Graduate School of Arts and Science, Courant   New York, NY
Masters of Science in Computer Science | GPA: 3.89/4.00   Expected May 2024
Queens College CUNY   Queens, NY
Bachelor of Science in Computer Science | GPA: 3.97/4.00 | Summa Cum Laude   May 2022
Relevant Coursework:
Computer Vision, Data Analytics, Cloud Computing, Data Structures & Algorithms, Databases

SKILLS

Programming: C, C++, Java, Python, JavaScript, HTML, CSS, Node.js, React JS, SQL
Technologies: Git/Github, Docker, Tensorflow, Jupyter Notebook, Google Cloud, Pandas, Scikit-Learn, Linux, Spark

PROJECTS

Text Processing with Spark (Python, Google Cloud), *CSCI 381 Cloud Computing, NYU Courant*   Dec 2022
- Configured and deployed a Spark cluster on choice cloud provider through independent research.
- Worked though inaccurate official documentation to run pySpark tasks on Google Cloud VMs.

BeMuse (Python, Tensorflow, React Native)   Dec 2021
- Collaborated as a pair on a mobile app to recognize user emotion from images to suggest spotify playlists.
- Tested and performed transfer learning for emotion recognition model to ensure suitable accuracy.
- Developed an api endpoint for the machine learning model and in-app image processing for input.

TitleSkimmer (Python, Tensorflow)   Dec 2021
- Constructed a language processing web app using Scikit-Learn, Tensorflow, and Flask to categorize titles.
- Trained two different predictive models, one with multinomial bayes, one with neural networks.
- Performed data exploratory and cleaning on a dataset of over 200,000 entries.
- Presented the final product to 40+ attendees at Cuny Tech Prep Demo Night.

QueensClassSchedule (T-SQL, JDBC) , *CSCI 331 Database Systems, Queens College*   Dec 2020
- Implemented a SQL script in a team of 4 that generates a database from a table of course information.
- Developed ERDs, data types, functions, and procedures to read in data and create the database in SQL
- Supported the team by breaking down topics and got recommended to be a course tutor by the professor.

RELEVANT EXPERIENCE

BigSibTutors   New York, NY
Operations and Automation Manager   Aug 2022 - Present
- Developed 5+ different automated scripts to increase efficiency in notifications and data processing.
- Managed design and content updates to the company website and Youtube channel.

CUNY Tech Prep   New York, NY
Fellow, Data Science   Jun 2021 - May 2022
- Learned Python 3, Jupyter Notebooks, Pandas, Numpy, Scikit-learn, SQL, exploratory data analysis (EDA), feature engineering, data collection and processing, statistical modeling, data visualization, and ML techniques.

QC Learning Commons, Queens College   Queens, NY
Tutor, Databases   Mar 2021 - May 2021
- Acted as a technical resource for 100 + students in the course "Database systems" and held weekly office hours
- Recommended by professor to assist students through Zoom in their coursework for databases and using T-SQL