Michael Cai

michaelcai0213@gmail.com | https://github.com/michael0419 | https://www.linkedin.com/in/michaelcai0213/

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:

Cloud Computing, Computer Graphics, Data Structures & Algorithms, Databases, Internet & Web Technologies

SKILLS

Programming: C, C++, Java, Python, JavaScript, HTML, CSS, Node.js, React JS, SQL
Technologies: Git/Github, Docker, VS Code, Eclipse, React Native, MongoDB, Google Cloud Platform, Tensorflow, Linux

PROJECTS

Database Modeling and Model Training (SQL, Python), *CSCI-GA 2433 Database Systems, NYU*   Dec 2022
- Designed a database for an insurance company with 25+ tables and optimization for data lake analysis in Erwin.
- Proposed method to process the database in Google Cloud SQL for data analysis and machine learning.
- Demonstrated working database, trained a model on GCP, and visualized data with Google Data Fusion.

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.

FoodForThought (Javascript, React JS, CSS)**,** *CUNY Hackathon 2021*   Jan 2021
- Constructed a web application in a team of 4 that allows users to pick an inspirational quote for the next user.
- Developed layered homepage animations using CSS and React JS.
- Guided implementation of APIs in Next.JS framework over the span of 24 hours.

ShortUrlScanner (Javascript, Node.js)   Dec 2020
- Created a Node.js server to scan potentially malicious URLs and return a shortened result URL for easy sharing.
- Incorporated the use of OAuth 2.0 APIs and caching to reduce excess api calls.
- Implemented request processing in Node.js to protect against improper usage.

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