

# Michael Cai

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## EDUCATION

### Queens College CUNY

Bachelor of Science in Computer Science, Minor in Mathematics | GPA: 3.97/4.00

Queens, NY

Expected May 2022

### Relevant Coursework:

Data Analytics, Data Structures, Design & Analysis of Algorithms, Database Fundamentals, Internet & Web Technologies

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## SKILLS

**Programming:** Java, Python, JavaScript, C++, HTML, CSS, Node.js, React, SQL

**Technologies:** VS Code, Eclipse, Git/Github, Pandas, Scikit-Learn, Tensorflow, Docker, MongoDB, Linux

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## PROJECTS

### TitleSkimmer

Dec 2021

- Constructed a language processing web app using Scikit-Learn, Tensorflow, and Flask to categorize titles given by the user.
- Trained two different predictive models, one with multinomial bayes, one with neural networking.
- 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.

### FoodForThought, CUNY Hackathon

Jan 2021

- Implemented a web application in a team of 4 that allows users to pick an inspirational quote for the next user
- Developed the homepage animations using CSS and React
- Guided implementation of APIs in Next.JS framework

### ShortUrlScanner

Dec 2020

- Created a web server to scan potentially malicious URLs and return a shortened URL for easy sharing
- Incorporated the use of OAuth 2.0 APIs and caching strategies
- Implemented request handling in Node.js to protect against improper usage

### QueensClassSchedule

Dec 2020

- Implemented a relational database in a team of 4 that organized information of all classes of a semester
  - Developed ERDs, data types, functions, and procedures to read in data and create the database in SQL
  - Worked with Java Database Connectivity library to generate final tables of the database
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## RELEVANT EXPERIENCE

### CUNY Tech Prep

New York, NY

Fellow, Data Science

Jun 2021 - Present

- Learn in-demand technologies like Python 3, Jupyter Notebooks, Pandas, Numpy, Scikit-learn, and SQL as well as 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
- Selected for a technical training program, as one of 183 students out of 400+ applicants

### 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
- Problem-solved and assisted students through Zoom in their coursework for databases and using T-SQL
- Led sessions on relational database concepts including the normalization of data and assisted students with syntax issues by breaking down coding problems and citing resources available