

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

SKILLS

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

Technologies: Eclipse, VS Code, Git/Github, Vercel, Docker, MongoDB, Pygame, Linux

PROJECTS

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
- Diagnosed issues regarding framework and hosting service limitations

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
 - Analyzed source information to develop a suitable ERD diagram for the database
 - Developed data types, functions, and procedures to read in data and create the database in T-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