

JAMAL (ZHENG) CAO

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EDUCATION

New York University, New York, NY
Bachelor of Science, Mathematics and Computer Science
Cumulative GPA:3.74

Aug. 2022 – Present

Bard College at Simon's Rock, Great Barrington, MA
High School Dual-Enrollment
Cumulative GPA:3.96

Aug. 2020 – May 2021

TECHNICAL SKILLS

Coding Languages:	Java, Python, CSS/HTML/JavaScript, R, LaTeX
Frameworks and Tools:	Vue, React, Node, Git, Docker, Linux, Kubernetes, AWS
Relevant Coursework:	Data Structures and Algorithms, Honors Linear Algebra, Probability Theory

PROJECTS

Gitlet (UC Berkeley CS 61B Course Project) Fall 2022

- Created a version control system similar to Git with 12 functionalities, such as add, remove, commit, checkout, and merge
- Utilized a tree-based data structure that employs SHA-1 encryption to allow quick retrieval of commits and copies of files

Lyft Back-End Engineering Virtual Internship (Forage Platform) Fall 2022

- Developed a car-service tracking system using a UML diagram from a messy python database
- Refactored the database and added two new service criteria with unit-tests

Show-up (NYU-Nottingham Cross-School Venture) Spring 2022

- Collaborated with 4 student developers and practiced scrum development methodology
- Designed a WeChat mini-program that mimics Instagram with additional student email verification using Vue.js and uni-app frameworks
- Implemented the LNMP server on Ali Cloud ECS virtual machine with Baota panel

EXPERIENCES

Math Tutor, **Bard College at Simon's Rock**, Great Barrington, MA Sept. 2020 – May 2021

- Led 20+ hours of 1-on-1 tutoring sessions on Calculus and elementary functions; all three students had improved & received A as their final grades

Vice President, **Social Entrepreneurship Club**, Qingdao, China Aug. 2018 – June 2020

- Organized two national social entrepreneurship competitions with more than 100 participants each
- Raised more than 7000 dollars for charity from the participant entry fee
- Moderated 7 monthly club seminars to explore the significance of social entrepreneurship