

# Caiwu Chen

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## EDUCATION

### Columbia University in the City of New York

New York, NY

*Bachelor of Arts: Computer Science*

09/2021-02/2024

- Cumulative GPA: 3.656/4.0; Dean's List of 2022, 2023.
- Relevant Course: Fundamentals of Computer, Advanced Programming, Computer Science Theory, Artificial Intelligence, Intro to Databases, Natural Language Processing, Computational Aspects of Robotics, Machine Learning, Analysis of Algorithms, Computer Vision I: First Principle, Neural Network of Deep Learning.

### LaGuardia Community College, The City University of New York

New York, NY

*Associate of Science: Computer Science*

03/2019-06/2021

- Cumulative GPA: 3.949/4.0; *Phi Theta Kappa*, Eugene Levin Scholarship For Excellence in the Sciences Scholar; Dean's List of 2019, 2020, 2021.
  - Relevant Course: Data Structure, Discrete Math, Linear Algebra, Calculus I, II, II, Intro to CS (C++), Programming in Java.
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## SKILLS

- **Programmings:** Python, Java, C, C++, SQL, HTML, JavaScript, Ruby
  - **Technology & Tools:** Meshlab, OpenAI, MongoDB, Github, GCP, OpenAI
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## WORK EXPERIENCE

### School of Social Work, Columbia University in the City of New York

New York, NY

*Lab Assistance (Work Study)*

09/2022-06/2023

- Maintained a clean and organized workspace, following safety protocols.
- Set up and prepared laboratory equipment, ensuring proper working order.
- Recorded experiment data using computer software, generated reports.

### Chinatown Manpower Project, Inc.

New York, NY

*Program Assistance*

06/2021-08/2021

- Visited and reported on 10 worksites weekly.
- Collected and documented 50 participants' time sheets.
- Assisted in enrolling 100 SYEP participants.
- Communicated with supervisors and participants.

### LaGuardia Community College, The City University of New York

New York, NY

*Teaching Assistant (Academic Peer Instruction Program)*

03/2020-07/2020

- Tutored 20 students in Calculus using a virtual platform during pandemic
  - Checked and explained 10-50 Calculus questions voluntarily and demonstrated using math tools
  - Reflected progress and issue weekly with advisors and peers and improved session quality
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## RESEARCH & PROJECTS

### Columbia University in the City of New York

New York, NY

*Columbia University Robotics Club*

09/2021-02/2024

- Utilized ROS and Linux to develop robust algorithms for real-time data analysis and decision-making of system subteam of self-driving car project
- Collaborated with team members to design and implement hardware and software solution by Python, using breadboard simulation techniques to optimized performance and efficiency
- Conducted regular testing and debugging processes, ensuring the functionality and reliability of developed system

### LaGuardia Community College, The City University of New York

New York, NY

*Undergraduate Researcher ([Exhibition Poster](#))*

01/2021-06/2021

- Proposed a schematic model describing correlations in the wave function
- Investigated pairing correlations and developed a C++ code for solving the model
- Analyzed and described experimental data