

## Contact

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## Education

### THE UNIVERSITY OF CHICAGO

BS IN COMPUTER SCIENCE

📅 June 2024 📍 Chicago, Illinois  
• GPA: 3.713/4.0

### UNIVERSITY OF CHICAGO LABORATORY SCHOOLS

DIPLOMA

📅 June 2020 📍 Chicago, Illinois  
GPA: 3.802/4.0

## Links

🐙 [GitHub KendrickXie](#)  
🌐 [Linkedin Kendrick Xie](#)

## Coursework

### UNDERGRADUATE

Introduction to Robotics  
Foundations of Computer Networks  
Intro to Software Development  
Intro to Data Engineering  
Intro to Computer Science  
Intro to Computer Systems  
Calculus III

## Skills

### PROGRAMMING

Python • C • R • SQL • HTML • Java

### MISCELLANEOUS

Git • Excel • Word • PowerPoint • Vegas Pro

## Honors

### ILLINOIS STATE SCHOLAR

2020-21

Approximately the top ten percent of graduates from approved high schools are announced as State Scholars each year.

## Experience

### COMPUTER SCIENCE INTERN

SIMPLICITA

📅 Jun 2021 – Dec 2021 📍 Remote

- Restructured a PostgreSQL database to increase overall query performance by an average of 95
- Utilized website scraping tools to compile data into a PostgreSQL database and extract documents pertaining to hundreds of government contracts
- Wrote R scripts to extract contract-specific information using simple search and optical character recognition
- Evaluated the potential value of machine learning assisted solutions such as the Amazon Web Service Textract
- Extract information needed for business proposals from CSV files using R

### BOARD MEMBER AND VALORANT REPRESENTATIVE

UNIVERSITY OF CHICAGO ESPORTS RECOGNIZED STUDENT ORGANIZATION

📅 Oct 2020 – Present 📍 Chicago, Illinois

- Generate ideas for funding
- Recruit university students to the Valorant team
- Search for tournaments and leagues for members to participate in
- Coordinate multiple teams for scrimmages and collegiate matches
- Research opposing universities and develop strategies against each opponent

### TEACHER'S AIDE AND TUTOR

METROSQUASH

📅 Sep 2017 – Apr 2018 📍 Chicago, Illinois

- Arrange and lead weekly activity station
- Tutor eighth-grade students in math and reading

## Recent Projects

### TRANSMISSION CONTROL PROTOCOL

THE UNIVERSITY OF CHICAGO

Implement the Transmission Control Protocol, a standard that defines how to establish and maintain a network conversation by which applications can exchange data

### INTERNET RELAY CHAT SERVER

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Implement a system that is compliant with IRC protocols allowing IRC clients to communicate with the server and relay messages between each other

### PARTICLE LOCALIZATION

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Estimate position and orientation of a robot in a given map by generating virtual particles at hypothetical positions of the robot and filtering out particles that do not match the robot's sensor measurements.

### Q-LEARNING

THE UNIVERSITY OF CHICAGO

Teach a robot to pick up objects and place them in the correct locations using a Q-Learning algorithm