

## EDUCATION

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### Georgia Institute of Technology

*B.S. in Computer Science*

Atlanta, GA

*Expected May 2025*

- **Concentrations:** Modeling/Simulation & Systems and Architecture
- **Coursework:** Data Structures & Algorithms, Computer Organization, Object-Oriented Programming, Linear Algebra, Multivariable Calculus

## WORK EXPERIENCE

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### KidsTeachKids+

*Founder, Software Engineer*

Naperville, IL

*Mar 2020 – Aug 2022*

- Launched not-for-profit peer tutoring platform that has provided 100+ hours of free tutoring to local students
- Developed a program automatically manage inventory of 100+ tutoring records using pygsheets
- Automatically ported data from Google Sheets to generate PDFs of official volunteer hours using Python
- Built responsive web app as proof-of-concept for complete system automation using React and Express

### LittleChineseChannel

*Software Engineering Intern*

Naperville, IL

*Jun 2020 – Sep 2020*

- Planned and developed database-driven mobile-friendly website supporting 300+ active users using PHP & MySQL
- Designed mobile-friendly user-interface for students to learn and practice Chinese using Bootstrap, JS, & JQuery
- Designed relational database schema to model students, teachers, classrooms, transactions, etc. using MySQL
- Implemented user authentication and session management in PHP & MySQL
- Created a program to automatically label 10,000+ images with UUIDs using Java

## PROJECTS

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### Support Vector Machine | Python, Numpy, Pandas, Scikit-learn

- Implemented soft-margin SVM and mini-batch stochastic gradient descent from scratch
- Achieved 99% accuracy, 95% recall, and 95% precision in identifying breast cancer from diagnostic data

### Web Scraper | Python, Scrapy

- Built a web scraper in Python to extract financial data from Yahoo Finance for 500+ stocks into spreadsheet for Wharton Global High School Investment Competition

### Image to Text-code Converter | Python, Numpy

- Created a script in Python to resize and transform jpeg images into pasteable text-code for display in Mathematica

### Monte Carlo Simulation | Python, Matplotlib

- Simulated Monte Carlo experiment to model and estimate internet bandwidth needs of the average American household for Mathworks M3 Challenge
- Displayed results of simulation in histograms for presentation in research report using Matplotlib

## HONORS & AWARDS

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- National Merit Scholar Finalist
- AP Scholar with Distinction
- Illinois State Scholar
- Chicago Youth Symphony Orchestras Co-concertmaster

## SKILLS

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**Languages:** Java, Python, Javascript, PHP, HTML, CSS, C, C++, C#

**Technologies:** OOP, REST, AJAX, React, MySQL, Node.js, Express, Bootstrap, JQuery, Less, Git, PyTorch

**Development Topics:** Machine Learning, Full-Stack Web Development, Relational Databases

**Hobbies:** Guitar, Violin, Cooking, Running, Reading, Poker