

# Peter Yang

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## EDUCATION

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### University of Michigan

*Bachelor of Science in Honors Mathematics, Computer Science, Statistics*

- **GPA:** 3.84/4.00

Ann Arbor, MI

*Aug. 2022 – May 2025*

### University of Wisconsin-Madison

*Bachelor of Science in Mathematics, Computer Science*

- **GPA:** 3.89/4.00

Madison, WI

*Sep. 2021 – May 2022*

**Relevant Coursework:** Object-Orientated Programming, Data Structures and Algorithms, Web Systems, Linear Algebra, Probability Theory, Stochastic Processes, Statistical/Machine Learning, Computer Organization

## EXPERIENCE

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### Software Engineer Intern

*Math Works*

May. 2023 – Aug. 2023

*Greater Boston, MA*

- Developed and deployed a parser in C++ for time data strings, interfacing with MATLAB to support the parsing of previously unsupported time formats for MATLAB duration objects, resulting in increased customer usability
- Leveraged ISO Unicode and globalization libraries in C++ to achieve comprehensive language support, enabling parsing of data strings in over 250 languages
- Created project spec and employed design patterns to ensure integration and modularity with existing duration parsing format.
- Participated in agile sprint cycles involving daily stand-up sessions and one-on-one meetings

### Club President

*UW-Madison Math Club*

Oct. 2021 – May 2022

*Madison, WI*

- Organized Undergraduate Math Colloquia, reaching out to Professors, PhD students, and Masters students
- Collaborated with other student organizations and academic departments to host cross-disciplinary events
- Presented a comprehensive funding proposal, resulting in successful acquisition of funds for club activities

## PROJECTS

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### Options Pricing and Trading Tool | *Python, Numpy, SciPy, Requests, BeautifulSoup*

- Developed a program in Python to find the theoretical price of an options contract using the Black-Scholes model
- Utilized BeautifulSoup to scrape real-time risk free rates and historical volatility by parsing website html
- Used the TD Ameritrade API to display real-time Bid/Ask and last trade price data

### StockXGuess | *JavaScript, Requests, HTML/CSS*

- Developed a game in Javascript where the player guesses the price of ten random sneakers from popular brands on StockX and receives a score
- Scraped json data of sneakers using StockX's unofficial API and Python's Requests library

### Discord Bot | *Python, Discord.py, Requests, Flask*

- Developed a Discord Bot using Python to detect and display ghost ping messages
- Utilized the Discord.py API to parse deleted messages for user pings, displaying the deleted message if a user ping was detected
- Hosted the bot with Replit, and used Flask with UptimeRobot to maintain continuous runtime

## TECHNICAL SKILLS

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**Languages:** C, C++, Java, JavaScript, Python, SQL (PostGres), R, MATLAB, HTML/CSS,  $\text{\LaTeX}$

**Frameworks/Libraries:** React, Node.js, Flask, Bootstrap, NumPy, pandas, Scikit-Learn, TensorFlow, SciPy, Requests, BeautifulSoup, Selenium

**Developer Tools:** Git/Github, Unix, VS Code, Perforce, Eclipse, Jira, Confluence