

Peter Yang

781-492-9588 | yangpe@umich.edu | [linkedin.com/in/peter](https://www.linkedin.com/in/peter) | <https://github.com/pyangmain>

EDUCATION

University of Michigan

Ann Arbor, MI

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

Aug. 2022 – May 2024

University of Wisconsin-Madison

Madison, WI

Bachelor of Science in Mathematics, Bachelor of Science in Computer Science

Sep. 2021 – May 2022

- **GPA:** 3.89/4.0

- **Honors/Awards:** Dean's List 2021-2022

Relevant Coursework: Object-Orientated Programming, Data Structures and Algorithms, Linear Algebra, Probability Theory, Real Analysis, Stochastic Processes, Honors Abstract Algebra, Discrete Mathematics, Computer Engineering, Single and Multivariable Calculus

EXPERIENCE

University Math Club Colloquia Organizer and Departmental Liason

Oct. 2021 – May 2022

University of Wisconsin-Madison

Madison, WI

- Organized Undergraduate Math Colloquia, reached out to Professors, PhD students, and advanced undergraduates to give talks
- Obtained a permanent room for colloquia during the semester and funding from the math department for club merchandise and refreshments at club meetings

Teaching Assistant

Sep. 2019 – Jun. 2020

Newton Chinese School

Newton, MA

- Assisted the instructor in teaching and creating lessons for a classroom of 40+ elementary school students
- Graded homework and exams, and provided personalized feedback for every student
- Worked with students in small groups to reinforce concepts, provide assistance on assignments, and improve academic performance

PROJECTS

🔗 Options Pricing and Trading Tool | *Python, Numpy, Scipy, Requests, BeautifulSoup*

- Developed an algorithm in Python to price options contracts using the Black-Scholes model
- Utilized BeautifulSoup to scrape real-time risk free rates and historical volatility by parsing 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 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
- Used Replit to host the bot, and Flask with UptimeRobot to maintain continuous runtime by pinging the server host

🔗 DNA Transcriber/Translator | *Java*

- Developed a program in Java to transcribe and translate DNA
- Created from scratch a Linked List implementation of a Queue ADT to represent and transcribe/translate DNA chains

TECHNICAL SKILLS

Languages: C, C++, Java, Python, SQL (PostGres), JavaScript, HTML/CSS

Frameworks/Libraries: React, NodeJS, Flask, Bootstrap, Numpy, Pandas, Scipy, BeautifulSoup

Developer Tools: Git, Unix, VS Code, Eclipse