

Peter Yang

(+1) 781-492-9588 | yangpe@umich.edu | [linkedin.com/in/yangpe](https://www.linkedin.com/in/yangpe) | github.com/pyangmain

EDUCATION

University of Michigan

Bachelor of Science in Honors Mathematics, Computer Science, Statistics

- **GPA:** 3.78/4.00

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-Oriented Programming, Data Structures and Algorithms, Web Systems, Machine Learning, Computer Organization, Computer Vision, Linear Algebra, Probability Theory, Stochastic Processes, Bayesian Analysis, Mathematical Statistics

EXPERIENCE

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

StockXGuess | *React.js, Spring Boot, PostgreSQL, Bootstrap*

- Developed an interactive web-based game using the React.js framework, where the player guesses the price of ten random sneakers from popular brands on StockX and receives a score
- Created a RESTful API in Spring Boot to read and update sneaker and user data from a PostgreSQL database
- Deployed the application online by utilizing proxy tunneling with a local machine

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

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

Languages: C, C++, Java, JavaScript, Python, SQL (PostGres, SQLite), R, MATLAB, HTML/CSS, L^AT_EX

Frameworks/Libraries: React.js, Node.js, Express.js, Spring Boot, Flask, Jinja2, Bootstrap, NumPy, pandas, Matplotlib, seaborn, Scikit-Learn, PyTorch, SciPy, Requests, BeautifulSoup, Selenium

Developer Tools: Git/Github, Unix/Linux, Visual Studio, VS Code, IntelliJ, Perforce, Eclipse, Jira, Confluence