

# Markus Massina

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## EDUCATION

**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science**

*Bachelor of Science in Computer Science*

*Expected May 2027*

**Cumulative GPA:** 3.43/4.00 | **Dean's List:** Fall 2022

**Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Discrete Math, Linear Algebra

## TECHNICAL SKILLS

**Languages:** C++, C, Java, Python, Javascript, X-86 Assembly, R, HTML/CSS, SQL

**Software and OS:** Visual Studio Code, Jupyter Notebook, Git, Linux, Vim, IntelliJ, Docker, PyCharm

**Additional:** Pandas, NumPy, Matplotlib, MongoDB, MySQL, TCP/IP, Data Visualization, Predictive Analysis

## PROFESSIONAL EXPERIENCE

**TCI Technologies, Cybersecurity Intern** | Mineola, NY

*June 2023 – August 2023*

- Acquired practical expertise in security risk assessment, computer troubleshooting, physical setup and repair, bolstering proficiency in threat analysis, security tool assessment, and incident response.
- Contributed to quality assurance efforts by providing valuable feedback on cybersecurity training materials developed by TCI Technologies.
- Demonstrated a strong commitment to enhancing cybersecurity practices, actively participating in quality improvement initiatives, including the practical application of Python for security enhancements.

**Law Office of Sylvia Cabana, Tech Support/Paralegal** | Garden City, NY

*November 2019 – December 2022*

- Supported the input of critical information for political asylum applications, ensuring accuracy and completeness.
- Played a pivotal role in creating and managing web accounts tailored to the needs of immigrants, enhancing their digital integration and access to resources.
- Facilitated the application process for federal and state documents, streamlining bureaucratic procedures for clients.

## PROJECT EXPERIENCE

**Voter Database, C++ Developer**

*November 2024 – December 2024*

- Developed a voter database management system utilizing various data structures to efficiently store, search, and process voter data.
- Optimized the program to achieve best-case time complexity and developed comprehensive edge case tests to ensure robustness and correctness.

**IEEE Floating Point Manipulation, C Developer**

*November 2024 – December 2024*

- Developed a function to convert IEEE double-precision values to the floatx format while preserving key floating-point conventions, including sign, exponent biasing, and special cases.
- Utilized bitwise operations and custom utilities to efficiently manipulate and extract floating-point components, ensuring adherence to IEEE standards while supporting diverse bit configurations.

**EMA Trading Strategy, Python Developer**

*March 2024 – March 2024*

- Developed and implemented a stock trading strategy using exponential moving averages (EMAs) to predict price movements and optimize buy/sell decisions.
- Gathered and processed extensive datasets of historical stock prices and market information using Python and relevant data analysis libraries.

**Duck Hunt Game, Python Developer**

*November 2023 – December 2023*

- Crafted an immersive Duck Hunt game by combining Python and Pygame expertise to design gameplay mechanics, visuals, and interactive elements for a captivating user experience.
- Actively collaborated within a team environment, contributing innovative ideas to deliver a visually compelling and engaging game.

## LEADERSHIP AND INVOLVEMENT EXPERIENCE

**Association of Computing Machinery (ACM), Member**

*August 2024 – Present*

- Attended weekly meetings to discuss emerging technologies, algorithms, and software development practices, enhancing technical knowledge and collaboration skills.
- Engaged in industry networking events and mentorship programs, connecting with professionals and peers to explore advancements in computing and career opportunities.

**Binghamton Mens Club Golf, Member**

*August 2023 – Present*

- Actively participated in team practices and competitions, demonstrating leadership, teamwork, and strategic decision-making in a competitive environment.