

# Aimé C. Mugishawayo

[Email](#) | [Portfolio](#) | [GitHub](#) | [LinkedIn](#) | (413) 437- 6374

## EDUCATION

### Amherst College

*Bachelor of Arts in Computer Science and Math, Cumulative GPA: 3.95/4*

- Relevant Coursework: Data Structures and Algorithms, Artificial Intelligence, Security, Abstract Algebra, Analysis.

**Amherst, MA**

*Expected May 2025*

### Sorbonne Université

*Study Abroad Semester, Semester GPA: 3.67/4*

- Relevant Coursework: Cryptography

**Paris, France**

*Jan 2024 – May 2024*

## PROJECT EXPERIENCE

### Mammoth Rumble- A decentralized voting platform: [Repository](#) | [Website](#)

*Node.js, React, Solidity, Ethers API, Bootstrap, Unit testing*

- Built, unit-tested, and deployed a Web3 web app that leverages smart contracts on the Ethereum blockchain to offer verifiable and tamper-proof election results.

### Intelligent Pacman bots: [Repository](#)

*Python, Artificial Intelligence, Search Algorithms, Reinforcement Learning*

- Created and tested AI Pacman agents using classical, adversarial search and reinforcement learning algorithms and won 100% of the test games. Then, built a multi-modal bot for a capture-the-flag contest and ranked 3<sup>rd</sup> out of 40.

### Phase1- A steganography detection tool: [Repository](#)

*Java, Statistical analysis, Image Manipulation*

- Developed a command-line based tool that detects and decodes hidden information (text or images) embedded within innocuous source images by extracting and analyzing the least significant bits of every pixel channel.

## WORK EXPERIENCE

### Amherst College- IT Department

*IT Desk Student Technician*

- Responded and captured 2700+ incidents in the ticket management system, resolving 2000+ of the issues and escalating others when appropriate; reimaged 250+ returned computers for redeployment.
- Ran 30+ Wi-Fi coverage surveys with Ekahau Analyzer to upgrade the college network, installed new 50+ access points and optical network terminals; increased student satisfaction in the network by 50%.

**Amherst, MA**

*Sep 2022 – Present*

### Amherst College- Computer Science Department

*Tutor*

- Mentoring students 9 hours weekly on Object-Oriented Programming and the Java Collections and Graphics libraries.

**Amherst, MA**

*Sep 2022 – Present*

## LEADERSHIP EXPERIENCE

### Amherst College- Office of Residential Engagement and Wellbeing

*Community Advisor*

- Enhanced community wellbeing in residence halls for 24 residents, organizing events and administering policy.

**Amherst, MA**

*Jan 2023 – Jun 2023*

### Amherst Weightlifting Club

*Treasurer*

- Managed club budget, maintained accurate financial records, and collaborated with leadership to plan events.

**Amherst, MA**

*Sep 2023 – Dec 2023*

### Artificial Intelligence in the Liberal Arts

*Team Leader*

- Led the club's web development and outreach teams, in establishing social media outreach strategies and coordinating 6 events.

**Amherst, MA**

*Sep 2022 – Jun 2023*

## SKILLS AND INTERESTS

### Skills

*Software Development Tools and Disciplines*

- Python, Java, TypeScript, React, Node.js, MySQL, Linux, Azure, REST APIs, and CI/CD.

### Interests

*Languages and Hobbies*

- Bilingual in French and English; moderately fluent in Swahili
- Amateur in Pen-testing, piano, African dance, bodybuilding, and soccer.