# Aimé C. Mugishawayo

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## EDUCATION

**Amherst College** <div align="right">**Amherst, MA**</div>
*Bachelor of Arts in Computer Science and Math, Cumulative GPA:3.95/4* <div align="right">*Expected May 2025*</div>
- Relevant Coursework: Data Structures and Algorithms, Artificial Intelligence, Security, Abstract Algebra, Analysis.

**Sorbonne Université** <div align="right">**Paris, France**</div>
*Study Abroad Semester, Semester GPA: 3.67/4* <div align="right">*Jan 2024 – May 2024*</div>
- Relevant Coursework: Cryptography

## 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$^{rd}$ 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** <div align="right">**Amherst, MA**</div>
*IT Desk Student Technician* <div align="right">*Sep 2022 – Present*</div>
- 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 College- Computer Science Department** <div align="right">**Amherst, MA**</div>
*Tutor* <div align="right">*Sep 2022 – Present*</div>
- Mentoring students 9 hours weekly on Object-Oriented Programming and the Java Collections and Graphics libraries.

## LEADERSHIP EXPERIENCE

**Amherst College- Office of Residential Engagement and Wellbeing** <div align="right">**Amherst, MA**</div>
*Community Advisor* <div align="right">*Jan 2023 – Jun 2023*</div>
- Enhanced community wellbeing in residence halls for 24 residents, organizing events and administering policy.

**Artificial Intelligence in the Liberal Arts** <div align="right">**Amherst, MA**</div>
*Team Leader* <div align="right">*Sep 2022 – Jun 2023*</div>
- Led the club's web development and outreach teams, established social media strategies and coordinated 6 events.

## SKILLS AND INTERESTS

**Software Development Tools and Disciplines**
- Python, Java, TypeScript, React, Node.js, MySQL, Linux, Azure, and REST APIs.

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

## AWARDS AND CERTIFICATIONS

- #1 nationally in Computer Science in the 2019 Rwanda National Advanced Level Secondary School Exams. <div align="right">*Feb 2020*</div>
- Microsoft Azure Fundamentals. <div align="right">*Jan 2025*</div>