

Aimé C. Mugishawayo

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EDUCATION

Amherst College

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

- Relevant Coursework: Data Structures, Algorithms, Artificial Intelligence, Machine Learning, Computer Security, Computer Systems, Computer Networks, Data Mining, Natural Language Processing.

Sorbonne Université

Study Abroad Semester, Semester GPA: 3.67/4

- Relevant Coursework: Cryptography

Amazon Web Services

Amazon Web Services DevOps Specialization

RELEVANT PROJECT EXPERIENCE

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

Node.js, React, Solidity, Ethers API, Bootstrap, Unit testing, Google Cloud.

- Built, unit-tested, and deployed a Web3 web app with 100+ monthly users; leveraged smart contracts on the Ethereum blockchain to offer verifiable and tamper-proof election results

TuskForce – A college marketplace.

Dart, Flutter, Android Development, iOS Development, Firebase, Google API, OAuth2.0

- Built and currently alpha testing a mobile marketplace for tasks and products to serve 5000+ students in rural and suburban colleges.

Foodback- An AI-powered solution to food waste: [Repository](#)

Node.js, React, Python, FastAPI, OpenAI API, Computer Vision, Prompt Engineering, Large Language Models.

- Leveraged research on conscious eating habits to develop a web application to promote mindful eating and reduce food waste among college students, integrating a dynamic menu interface, large language models, and computer vision for leftover plate analysis.

Intelligent Pac-Man bots: [Repository](#)

Python, Artificial Intelligence, Search Algorithms, Reinforcement Learning

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

WORK EXPERIENCE

Amherst College- IT Department

IT Desk Student Technician

- Shortened response time by up to 50% for common requests by leveraging Python to automate IT service desk workflows, documented the automation, and wrote template responses to common requests.
- Captured 2700+ incidents in SolarWinds Service Desk, resolving 2000+ issues and escalating others when appropriate; reimaged 250+ returned computers for redeployment; repaired 40+ computers during the 2024 CrowdStrike Outage.
- Implemented security best practices by enforcing multi-factor authentication (MFA) and password policies, updating operating systems, and reducing unauthorized access risks and incidents by 80%.

Amherst College- Computer Science Department

Tutor

- 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

Community Advisor

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

Artificial Intelligence in the Liberal Arts

Team Leader

- Led the club's web development and outreach teams, established social media strategies, and coordinated six events.

SKILLS AND INTERESTS

Tools and Disciplines

- Python, Java, TypeScript, React, Node.js, Dart, SQL, NoSQL, Linux, Azure, REST APIs, CI/CD

Languages and Hobbies

- Bilingual in French and English.
- Amateur in pen-testing, African dance, and weightlifting.

AWARDS AND CERTIFICATIONS

- #1 nationally in Computer Science in the 2019 Rwanda National Advanced Level Secondary School Exams. *Feb 2020*
- Microsoft Azure Fundamentals. *Jan 2025*
- Google Cybersecurity Professional Certificate *Feb 2025*