

Aimé C. Mugishawayo

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SKILLS

Programming Languages

- Python, Java, JavaScript/TypeScript, Dart, SQL, Solidity; familiar with C++, C#, Assembly.

Machine Learning Libraries

- NumPy, Pandas, TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV, Hugging Face, LangChain.

Software Development Frameworks

- React, Node.js, Tailwind, Flask, FastAPI, Firebase, Flutter; familiar with .NET.

Cloud and Virtualization

- Azure, AWS, Google Cloud, Windows Subsystem for Linux, VMWare, Docker, Kubernetes.

Security & Networking

- Wireshark, Nmap, Metasploit, IAM, MFA, OWASP Top 10, tcpdump.

Databases and Big-Data

- Firebase, Hadoop, MapReduce, PostgreSQL, DynamoDB, Spark, Kafka.

Tools & Methodologies

- Git, Agile/Scrum, CI/CD, Test-driven development.

Soft Skills

- Technical mentoring, cross-functional communication, adaptability.
- Bilingual in French & English.

TECHNICAL PROJECTS

Madame Saville | [Repository](#) | *Python, Flask, Pandas, REST*

- Integrated proprietary & public datasets and engineered rental-pricing models that delivered < 2-sec recommendations for 50k+ property records; presented at Five College DataFest 2025.

Mammoth Rumble | [Repository](#) | [Website](#) | *React, Solidity, ethers.js, 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.

Foodback | [Repository](#) | *Node.js, FastAPI, Computer Vision, LLMs*

- Combined plate-image segmentation with GPT-4 prompt pipelines, achieving 88 % accuracy in leftover detection and generating personalized recipe suggestions.

TuskForce | *Flutter, Firebase, Google API*

- Designed and prototyped an MVP expected to serve 5k+ students; implemented OAuth 2.0 login and a push-notification microservice.

WORK EXPERIENCE

Amherst College IT | Amherst, MA | *IT Student Technician*

Sep 2022 – Present

- Automated ticket triage with Python scripts, cutting average response time by 50 %.
- Resolved 3k+ incidents, imaged 250+ devices, and repaired 40+ systems during 2024 CrowdStrike outage.
- Enforced MFA and OS patching, reducing unauthorized-access incidents by 80 %.

Amherst College CS Department, Amherst, MA | *Peer Tutor*

Sep 2022 – Present

- Coach 10+ students weekly in Java OOP, data structures, and algorithmic problem-solving.

EDUCATION

Amherst College | Amherst, MA | *B.A. Computer Science & Mathematics GPA: 3.95/4.0*

May 2025

- Coursework: Data Structures & Algorithms, AI, ML, NLP, Computer Security, Systems, Networks, Data Mining, Nonlinear Optimization, Number Theory.

Sorbonne Université | Paris, France | *Study Abroad Semester*

Jan 2024 – May 2024

- Coursework: Cryptography

LEADERSHIP EXPERIENCE

Amherst College Office of Residential Engagement | Amherst, MA | *Community Advisor*

Jan 2023 – Jun 2023

- Fostered an inclusive community for 24 residents; organized 12 events on wellness & tech literacy.

AI in the Liberal Arts Club | Amherst, MA | *Team Leader*

Sep 2022 – Jun 2023

- Led web & outreach teams; grew membership 3x and hosted 6 campus events.

AWARDS & CERTIFICATIONS

- #1 nationally in Computer Science—Rwanda A-Level Exams. 2020
- Microsoft Azure Fundamentals. 2025
- Google Cybersecurity Professional Certificate. 2025