

# Samuel Mucyo

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## EDUCATION

**Harvard University**, Cambridge, MA

**Graduation Date:** May 2025

**Concentration:** Computer Science and Statistics

**Relevant Coursework:** Algorithms and Data Structures; Systems Programming and Machine Organization; High Performance Computing (HPC); Machine Learning; and Statistical Inference I

## SKILLS

**Programming Languages:** Python, C, C++, Java, Bash, JavaScript

**Tools/Frameworks:** AWS, Spring Framework, Flask, React, Pandas, NumPy, TensorFlow, Git

## EXPERIENCE

**Amazon**

Seattle, WA

*Software Development Engineer Intern at Amazon.com* 05/2023 – 08/2023 and 05/2024 – 08/2024

- Designed and Delivered an A/B Testing framework for monitoring new changes on the Seller Profile Page of Amazon.com and integrated it with the existing codebase. (Summer 2024)
- Built APIs for rule-based risk monitoring and alarming software to reduce the time to identify and remediate fraudulent activities and API misuse by working with data engineers and analysts on the team (Summer 2023)
- Tools: Python, Java, Spring MVC, AWS CDK, Java Server Pages, and Bash Scripting

*Software Development Engineer Intern at AWS – Redshift*

06/2022 – 08/2022

- Designed and implemented a serverless data lake that enhanced the detection and analysis of bottlenecks in test failures within the Redshift Infrastructure Team.
- Automated and linked the data lake with an internal visualization tool to provide detailed insights, enabling quicker, data-driven decisions.

**Harvard University**

Cambridge, MA

*Teaching Fellow, Introduction to Computer Science (CS50)*

08/2022 – 12/2023

- Lead weekly hands-on tutorials of 13 students, host office hours of 6 hours per week, and grade student projects and problem sets.
- Develop in-class exercises on programming languages: C, Python, HTML, CSS, and JavaScript.

## LEADERSHIP & EXTRACURRICULAR

**Harvard Undergraduate Robotics Club**

Cambridge, MA

*Algorithms & AI Developer*

08/2022 – 03/2024

- Architected and implemented the high-level heuristic algorithm for Harvard's Pacman robot to compete in the Annual Pac Bot Competition. Third Place Winner of the 2023 Competition.

## PERSONAL PROJECTS

**Attendance Web Application** | *Tools & Languages: Flask, Python, HTML, CSS, JavaScript, SQL*

- Built a Flask web application to improve attendance recording significantly through facial recognition. Application supported simultaneous recording of attendance in real-time.
- Reengineered the user image storage mechanism from raw images to facial encodings, hence boosting facial recognition lookup efficacy, application responsiveness, and data privacy.