

Hilary Wekesa

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EDUCATION

University of Toronto

HBSc, Computer Science & Psychology

Lester B. Pearson International Scholarship — \$400,000+ full-ride merit scholarship

Toronto, ON

Sep. 2025 – Apr. 2029

SKILLS

Languages: Python, R, C++, TypeScript, Swift, JavaScript

Data & ML: pandas, tidyverse, scikit-learn, ggplot2

Frameworks & Tools: React, Next.js, SwiftUI/WidgetKit, Node.js, PostgreSQL, Git, AWS, Docker, LLM & Speech-to-Text APIs

EXPERIENCE

Data Analyst

Oct. 2025 – Dec. 2025

UofT & Nucleus Independent Living

Toronto, ON (Hybrid)

- Analyzed anonymized client datasets in R (tidyverse, dplyr, ggplot2) to quantify how demographic and health factors influenced service utilization.
- Developed and evaluated predictive models (logistic regression, classification trees, kNN) to uncover usage patterns and assess feature importance.
- Co-authored a 24-slide report; presented statistical insights and visualizations to UofT faculty and external partners.

LEADERSHIP

Pearson Committee Member

Jul. 2025 – Apr. 2026

University of Toronto Pearson Scholarship Program

Toronto, ON

- Planning and leading inter-cohort programming for 330+ scholars, overseeing governance for a \$10,000+ annual fund, building and fostering a structured cross-cohort mentorship ecosystem.

Chief Financial Officer

Aug. 2023 – Apr. 2025

Ocean Eyes Kenya

Mombasa County, Kenya

- Planned and financed marine conservation projects along the Vipingo coast in partnership with Oceans Alive.
- Secured \$20,000+ in grants — including an IB Global Youth Action Fund Award — to expand project cycles and ensure sustainability.

Assistant Director & Co-Producer, Annual Play

Sep. 2023 – Feb. 2024

Aga Khan Academy

Mombasa, Kenya

- Led the production team with no prior theatre experience; recruiting the executive team, securing Disney MTI rights and corporate sponsorships, and directing casting, rehearsals, and set design. Generated ~\$10,000 in revenue and donated ~\$3,000 in proceeds to clean-water and sanitation projects at Mwega Primary.

Residential Captain (Residence Don)

Sep. 2023 – Apr. 2025

Aga Khan Academy Mombasa

Mombasa, Kenya

- Selected to lead a boarding house: mentored junior boarders, mediated conflicts, and organized cultural-exchange and community events.

PROJECTS

Wera — Internship Application Platform | *Next.js, TypeScript, PostgreSQL, Clerk*

2026

- Built and deployed a full-stack, multi-user web app (Turbo monorepo, hosted Postgres, managed auth) to discover internships, tailor LaTeX resumes, and generate cover letters.
- Engineered source connectors and an LLM pipeline for posting discovery and resume tailoring; covered by Vitest and Playwright tests.

Fridgie — iOS Travel-Photo App | *Swift, SwiftUI, WidgetKit, CoreLocation*

2026

- Shipped a v1.0 (TestFlight) iOS app turning travel photos into collectible magnets on a home-screen widget that mirrors in-app state — fully on-device, no account or backend, with a tested model layer and deep-linked widget across all three families.

3D Tic-Tac-Toe AI | *Python, Minimax, Game-Tree Search*

2026

- Engineered a 4×4×4 tic-tac-toe engine and minimax search bots (pruned game tree, custom board-evaluation heuristics) in a 3-person team.
- Benchmarked strategies over 1,200 automated simulations; depth-search bots won 94–100% of games against greedy and random baselines.

Source-to-Syllabus | *Claude Code Plugin, HTML/CSS/JS*

2026

- Published a Claude Code plugin that turns any codebase into an interactive, multi-page HTML course.