

**Tresor Yubahwe**

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**EDUCATION**

**PRINCETON UNIVERSITY** | July 2023 – Present

Bachelor of Science in Computer Science | Minor in Finance

**Relevant Courses:** Algorithms & Data Structures, Distributed Systems, Machine Learning, Multivariable Calculus, Introduction to Data Science, Object-Oriented Programming.

**SKILLS**

**Programming Languages:** Java, Python, JavaScript, HTML, R

**AI/ML Tools:** LLMs, Chatbot Development

**Other Skills:** Bilingual in Kinyarwanda & English, Project Management, Data Analysis, CRM (HubSpot)

**TECHNICAL EXPERIENCE & PROJECTS**

**KudiBooks HQ | AI and Integration Intern | Kigali, Rwanda | Jun 2024 – Sept 2024**

- Implemented a personalized learning system using AI/ML (Hugging Face, PyTorch), by applying NLP for content embeddings and CUDA-optimized GPUs for model training, improving student engagement completion rates by 30% in partner schools in Rwanda.
- Developed a SQL query editor interface using React.js for frontend and Node.js for backend processing, enabling intuitive query building and database interaction.
- Integrated Twilio's WhatsApp API with a Flask server, creating a USSD-based chatbot for sexual and reproductive health, accessed by 65+ underserved women.
- Led machine learning model deployment, enhancing learning efficiency through adaptive transformer models.

**Princeton AI Alignment Lab | Student Assistant Researcher | Aug 2024 – Present**

- Conducted research on ethical implications of AI, focusing on neural networks, reinforcement learning, and AI safety measures such as ELK (Eliciting Latent Knowledge) and mechanistic interpretability.
- Collaborated with peers to analyze readings on AI alignment topics like reward misspecification, scalable oversight, and policy evaluations, contributing to weekly discussions.
- Applied insights to propose scalable frameworks for safe deployment of AI systems, emphasizing transparency and ethical practices.

**Tutwiler Community Education Center | Customer Engagement Intern | Jan 2024**

- Analyzed data and managed customer engagement using CRM (HubSpot), improving the effectiveness of TCE's after-school enrichment program in Ohio.

**LEADERSHIP EXPERIENCE**

**Here for You (H4U) | Founder | Virtual**

March 2022 – Present

Aimed to address learning poverty in Rwanda by equipping students with digital literacy, English proficiency, and civic entrepreneurship skills for future opportunities

- Led a two-month bootcamp for 30 underserved students, delivering 1,800 hours of digital literacy training (36x the national ICT average) and increasing engagement in civic projects.
- Implemented a reading program that resulted in students completing 25 texts in 3 weeks and facilitated 2 civic projects per student, totaling 24 hours of community-based problem solving.

**Civics Unplugged | College Counsellor, | New York, NY**

December 2023 - February 2024

Streamlined grant application process for 400+ students and created support framework, resulting in increase in student engagement and representation, and improvement in grant utilization rates.

**INDUSTRY AFFILIATIONS**

**COLORSTACK | REWRITING THE CODE | CODE2040** - Network with other Black and Latinx students through monthly meetings.