

RONALD MILGO

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EDUCATION

Yale University, New Haven, CT

August 2023 - May 2027

- BS. Computer Science and Mathematics
- *Relevant Coursework*: Data Structures and Programming Techniques, Discrete Math, Multivariable Calculus, Computer Architecture, Object-Oriented Programming, Algorithms, Systems Programming & Computer Organization

TECHNICAL SKILLS

- *Computer languages and tools*: Python, C, C++, JavaScript, Swift, Rust, HTML, CSS, SQL, Flask, React.js, Node.js, PHP, Ruby, Flask, Django, Next.js, Spring Boot, RESTful APIs, Git, Linux, GitHub, Racket

WORK EXPERIENCE

Yale School of Engineering & Applied Science, *Student Software and Systems Engineer*, New Haven, CT October 2023 - Present

- Developed Python automation scripts for lab operations, integrating inventory management and scheduling tools to reduce setup time by 30%.
- Developed a predictive scheduling algorithm to forecast lab resource demand, reducing equipment conflicts by 40%.
- Configure and troubleshoot laboratory equipment and software, including MATLAB for data analysis and LabVIEW for instrument control, ensuring smooth operation for 100+ student research projects.
- Programmed Arduino-based engineering kit bikes, enabling 40+ students to control motors, sensors, and embedded systems, fostering practical understanding of IoT and robotics concepts.

Yale Printing & Publishing Services, *Software Integration Specialist*, New Haven, CT

November 2023 - October 2024

- Integrated a digital asset management system, improving the organization and retrieval of scanned documents by 35%.
- Automated quality control workflows using Python-based tools to achieve 99% consistency and accuracy in digitized content.
- Collaborated with a team of staff to digitize over 5,000 archival documents, enhancing accessibility for university researchers.
- Spearheaded a document search engine prototype, utilizing natural language processing (NLP) to enable researchers to search archives based on content relevance, improving search efficiency.

Equity Bank Limited, *Technology & Education Program Mentor*, Nairobi, Kenya

April 2024 - August 2024

- Taught 300+ students Python and C programming languages, introducing foundational programming concepts to spark interest in computer science and encourage students to explore CS-related majors.
- Led 2-3 workshops and seminars weekly on key college admissions topics, including essay writing, interview preparation, and application timelines, ensuring students are well-prepared for every aspect of the process.

Equity Bank Limited, *Software Development Trainee*, Nairobi, Kenya

May 2022- October 2022

- Implemented a CRM system to track and follow up with new account holders, leading to a 35% increase in customer retention within the first three months.
- Gained hands-on experience in SQL and workflow automation by analyzing customer data to support personalized follow-ups and engagement strategies.
- Volunteered in the Peer Assisted English Practice (PAEP) program, supporting 15 Congolese and Rwandan scholars in improving communication skills, with a focus on preparing for TOEFL standardized tests.

TECHNICAL PROJECTS & LEADERSHIP EXPERIENCE

Yale International Students' Organization, *Marketing Council Liaison*, New Haven, CT

December 2023 - Present

- Created interactive digital marketing materials using HTML, CSS and JavaScript, improving user engagement on the organization's website ([link](#)) and social media channels.
- Designed weekly visually appealing posters and digital content for event promotion, leveraging design software to create effective marketing materials for email campaigns and Instagram.

Assembler & Simulator for a CPU Architecture, *Personal Project* [link](#)

March 2024 - April 2024

- Developed a CPU simulator for a custom architecture using Racket, including RAM management, CPU register manipulation, and instruction execution. Simulated and tested programs like an encryption tool (xor-based) and a reverse program that processes user input sequences.
- Tested the simulator by running complex data sets using an xor-based encryption tool, achieving great accuracy.

Ronbel Adventures, *Web Application*

November 2023 - December 2023

- Developed a personalized travel website using HTML, CSS, JavaScript, Flask, and Python. Integrated an algorithm to generate destination recommendations around the world based on user preferences.
- Showcased the project to 150+ potential users on-campus, who tested and approved its user-friendliness and functionality, highlighting its intuitive navigation and seamless recommendation process.