RONALD MILGO

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EDUCATION

Yale University, *New Haven, CT* Expected Graduation: **May 2027**

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

TECHNICAL SKILLS

- **Languages:** Python, C, C++, C#, JavaScript, Java, Swift, Rust, HTML, CSS, SQL, Racket
- **Frameworks/Libraries:** Flask, Django, React.js, Next.js, Node.js, TensorFlow, PyTorch
- **Tools & Platforms**: AWS, Git, GitHub, Linux
- **Certifications:** Introducing Generative AI with AWS(Udacity), Web Development(CodePath), iOS Development(CodePath), Technical Interview Prep- Data Structures(CodePath)

WORK EXPERIENCE

Tsai Center for Innovative Thinking at Yale **New Haven, CT**

Software Engineer Intern May 2025 - August 2025

- Built a distributed AWS Lambda/S3 + gRPC pipeline for Neotix Robotics, handling 10TB+ weekly and cutting latency 40%; Integrated ML annotators that tripled throughput (100K+ episodes) and lowered error rates by 35%.
- Led firmware and backend development for Verustruct's gantry-less 3D printer, enabling sensor-driven real-time infrastructure monitoring and carbon-negative wall fabrication.
- Built a CUDA-based generative AI engine for Prevision Labs, optimizing asynchronous batching and multi-threaded GPU streaming to cut latency by 45% and deliver 50+ FPS visuals for 200+ live showcases.

Yale School of Engineering & Applied Science **New Haven, CT**

Software and Systems Engineer Intern May 2024 - August 2024

- Built automation tools in Python for lab inventory and scheduling, cutting equipment setup time by 30% and improving efficiency for 100+ students and faculty.
- Designed predictive scheduling algorithms using historical usage data, reducing resource conflicts by 40%.
- Programmed Arduino-based engineering bikes for 40+ students, enabling hands-on learning in IoT, robotics, and real-time control with motors and sensors.

Equity Bank Limited **Nairobi, Kenya**

Technology & Software Intern May 2022 - May 2023

- Implemented a CRM with SQL and workflow automation, improving new account follow-up and boosting customer retention by 35% in the first 3 months.
- Taught Python and C to 300+ students nationwide, introducing core programming concepts and promoting interest in Computer Science.

TECHNICAL PROJECTS & LEADERSHIP EXPERIENCES

Web developer **New Haven, CT**

Yale International Students' Organization December 2023 - April 2025

- Built interactive HTML/CSS/JavaScript components and responsive event materials, boosting engagement by 30% and reaching 1,000+ students through optimized email and Instagram campaigns.
- Collaborated with the Marketing Council to unify UI design across platforms, enhancing brand cohesion and expanding digital reach.

Web Application

Sorting Algorithm Visualizer | *HTML, CSS, JavaScript* Github | Demo

- Built an interactive visualizer for Merge, Quick, and Bubble Sort with adjustable speed and size controls.
- Adopted in Yale's Data Structures course by 200+ students to visualize algorithms via live demos.

Full-Stack Web Application

BulldogFit | *HTML, CSS, JavaScript, WebSockets and Flask* Github

- Built a community-focused fitness web app for Yale students enabling 100+ users to view real-time gym availability and coordinate workouts based on shared schedules and fitness goals.
- Integrated a secure real-time chat feature using WebSockets and Flask-SocketIO, allowing matched users to connect, plan sessions, and build a sense of community around shared fitness interests.