

RONALD MILGO

421 Temple St, New Haven, CT- 06511 | (203) 668 7385 | ronmilgo@gmail.com | [LinkedIn](#) | [GitHub](#) | Portfolio

EDUCATION

Yale University, New Haven, CT <ul style="list-style-type: none">BS. Computer Science<i>Relevant Coursework:</i> Data Structures and Programming Techniques, Algorithms, Full Stack Development, Discrete Math, Multivariable Calculus, Computer Architecture, Object-Oriented Programming, Systems Programming & Computer Organization	Expected Graduation, May 2027
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TECHNICAL SKILLS

- Programming languages:** Python, C, C++, JavaScript, Java, Swift, Rust, Go, Ruby, PHP, HTML, CSS, SQL, Racket.
- Frameworks & Libraries:** Flask, Django, React.js, Next.js, Angular, Vue, Node.js, Spring Boot, RESTful APIs
- Tools & Platforms:** AWS, Git, GitHub, Linux, MongoDB
- Machine Learning:** TensorFlow, PyTorch

WORK EXPERIENCE

Tsai Center for Innovative Thinking at Yale <i>Software Engineer Intern</i>	New Haven, CT May 2025 - Present
<ul style="list-style-type: none">Collaborated with 3 early-stage startups, delivering full-stack solutions across web development, automation, and machine learning, accelerating product readiness and reducing manual workflows by 50%.Led frontend development for Neotix Robotics, building a data request portal and SEO-optimized blog using Next.js, increasing web visibility by 3x; also contributed to machine learning model testing and robot training to improve autonomous behavior accuracy by 40%.Automated Verustruct's subscription flow using JavaScript and Wix APIs, and redesigned UI to align with investor pitch decks, improving engagement and branding consistency.Enhanced Prevision Labs' Setpet interface by implementing real-time image generation with the HTML Canvas API, powering live visuals for 200+ prototype requests and enabling faster iteration during client-facing showcases.	

Yale School of Engineering & Applied Science <i>Student Software and Systems Engineer Intern</i>	New Haven, CT May 2024 - August 2024
<ul style="list-style-type: none">Built Python automation tools for lab inventory and scheduling workflows, reducing equipment setup time by 30% and improving lab efficiency for 100+ students and faculty.Designed and implemented a predictive scheduling algorithm using Python and historical usage data, forecasting lab equipment demand and reducing resource conflicts by 40% during peak project cycles.Programmed Arduino-based engineering bikes, enabling 40+ students to interact with motors, sensors, and embedded systems—facilitating hands-on learning in IoT, robotics, and real-time control.Maintained and troubleshoot lab software environments using MATLAB, LabVIEW, and hardware interfaces, ensuring uninterrupted operation across 100+ concurrent research projects.	

Equity Bank Limited Technology & Software Intern	Nairobi, Kenya May 2022 - May 2023
<ul style="list-style-type: none">Implemented a CRM system to track and follow up with new account holders, using SQL and workflow automation tools to boost customer retention by 35% in the first 3 months.Taught Python and C programming to 300+ students as part of a nationwide tech outreach initiative, introducing foundational programming concepts and promoting CS majors among high-potential scholars.	

TECHNICAL PROJECTS & LEADERSHIP EXPERIENCES

Yale International Students' Organization Web developer	New Haven, CT December 2023 - April 2025
<ul style="list-style-type: none">Developed interactive marketing components for the organization's website using HTML, CSS, and JavaScript, increasing user engagement and page interaction by 30% across event-related content.Designed and deployed responsive digital materials for weekly events, optimizing visuals for both email campaigns and Instagram, reaching an audience of 1,000+ students.Collaborated with the Marketing Council to improve UI consistency across platforms, enhancing brand cohesion and digital reach.	

Sorting Algorithm Visualizer Web Application	November 2024 - January 2025
<ul style="list-style-type: none">Developed an interactive web-based visualizer using HTML, CSS, and vanilla JavaScript to animate sorting algorithms including Merge Sort, Quick Sort, and Bubble Sort, supporting real-time control of speed and array size.Created as a learning tool for a Yale Data Structures course, helping 200+ classmates better understand algorithmic behavior through live visual demonstrations and in-class walkthroughs.	

StudyBuddy iOS Mobile App	January 2025 - Present
<ul style="list-style-type: none">Developed a native iOS study app in Swift using Xcode and UserNotifications, helping 150+ students track assignments, flashcards, and quizzes; boosted daily engagement by 40% through personalized reminders and intuitive UX aligned with Apple Human Interface Guidelines.Engineered a scalable MVC architecture with RESTful APIs to manage dynamic content and future features like AI-driven study plans and Calendar integration via EventKit (in progress).	