

Nisha Nkya

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Cambridge, MA

May 2025

BSc. Computer Science & Engineering ,4.5/5.0

Relevant course work: Fundamentals of Programming, Software Studio, Machine Learning, Computer Vision, Design & Analysis of Algorithms

PROFESSIONAL EXPERIENCE

MIT Talented Scholars Resource Room, Massachusetts

Mar 25 - Present

TSR Facilitator

- Teach math and physics, helping high-achieving students strengthen their problem-solving skills and conceptual understanding.
- Guide students through challenging coursework and exam preparation, fostering analytical thinking and academic growth.

Microsoft, Georgia

Jun 24 – Aug 24

Software Development Intern

- Migrated and modernized UI components using Fluent UI, React, and TypeScript, improving performance and maintainability while ensuring seamless compatibility.
- Achieved 100% test coverage with comprehensive unit tests and developed detailed documentation, streamlining adoption and long-term scalability.

Amazon Web Services, Washington

May 23 – Aug 23

Software Development Intern

- Developed and integrated a centralized internal console using React, JavaScript, and CSS, streamlining operations and metrics.
- Improved team review efficiency by 40% and enhanced data translation by deprecating legacy consoles in favor of a unified system.

MIT Digital Humanities Lab, Massachusetts

Sep 21 - May 23

Student Researcher/Team Lead

- Collaborated on digital humanities projects spanning gender studies, social issues, urban planning, and photography, contributing to faculty research.
- Led a 6-member team for one project, demonstrating effective leadership and project management.
- Projects contributed to faculty research and were publicly accessible, highlighting significant contributions to digital humanities.

PROJECTS

Cashew Nut Processing Research | MIT ASA Impact Fund Awardee

Aug 24 – Present

- Conducted research on Tanzania's cashew processing industry, analyzing challenges in automation, supply chain inefficiencies, and local value retention.
- Currently expanding the research into a scalable solution, aiming to develop technology-driven interventions that enhance efficiency and economic sustainability.

Exiled Ukrainian Scientists Web Platform | MIT Digital Humanities Lab **Jan 23 – May 23**

- Led a team of six in designing and developing a platform to connect displaced Ukrainian scholars, managing tasks and facilitating collaboration.
- Built backend infrastructure and designed mockups in Figma, ensuring an intuitive interface for users.

This Was Paris in 1970 | MIT Digital Humanities Lab **Jul 22 – Dec 22**

- Developed blog functionality using Python, Django, and Django CMS, enhancing accessibility for archival photography research.
- Collaborated with the design team to modernize the site's interface, balancing usability and existing system constraints.

Self-Sustaining Cities | MIT Digital Humanities Lab **Jan 22 – May 22**

- Implemented a timeline feature and magnifying tool to improve data visualization and accessibility for historical research.
- Conducted health-related research and integrated findings into an interactive digital platform.

Gender Analysis Web Project | MIT Digital Humanities Lab **Sep 21 – Dec 21**

- Enhanced functionality of a text analysis web tool using Python and Django, enabling broader dataset compatibility.
- Processed and visualized TED talk transcripts (4,000+ records) to explore gender representation trends over time.

LEADERSHIP & EXTRACURRICULARS

Webmaster & Fashion Show Director | MIT African Students Association **May 24 - Present**

- Oversee the MIT ASA website, optimizing functionality, maintaining digital resources, and enhancing member engagement through improved accessibility and content management.
- Directed the fashion show for the 2025 MIT African Cultural Night, overseeing model recruitment, designer coordination, and show planning for the club's biggest annual event on campus.

Web Development Lead | Sayansi Ambassadors **May 24 – Mar 25**

- Designed and developed the organization's official website to showcase STEM outreach initiatives and boost visibility for fundraising and collaboration.
- Collaborated with team leads to highlight youth-centered STEM programs, driving increased engagement from Tanzanian students and supporters.

Fundraising Campaign Creative Lead | Hector Foundation **May 24 – Dec 24**

- Led the creative direction for the foundation's 5th-anniversary fundraising campaign, developing branding materials for social media, newsletters, and donor outreach.
- Produced promotional graphics and storytelling content that elevated the campaign's visibility and helped mobilize support for education-focused initiatives.

Designer | MIT Gala & Young Black Voices Exhibition **Feb 23 – May 24**

- Designed and showcased four fashion pieces at the MIT Gala Exhibition, a historic first-of-its-kind event at MIT, celebrating creativity and innovation.
- Featured in the Young Black Voices Exhibition at MIT (May 2024), highlighting artistic expression and cultural identity through fashion design

- Maintained, restructured, and improved the organization's website, reducing reliance on external site builders and projecting a 70% cost reduction.
- Mentored international students by providing guidance on college applications, scholarships, and career development, ensuring accessibility to critical resources.

SKILLS & INTERESTS

Technical Skills: Python, JavaScript, Typescript, Vue, Svelte, Pytorch, HTML5, CSS, Django, React, MongoDB, C/C++, MATLAB, MiniSpec, Figma

Languages: Swahili (Native), French (Elementary)

Interests: Photography, Fashion Design, Product Design