

Nene F. Ndiaye

(484) 215-9799 · nfndiaye@andrew.cmu.edu · linkedin.com/in/nenefndiaye · Pittsburgh, PA

EDUCATION

B.S. Computer Science · Carnegie Mellon University · *Pittsburgh, PA*

Expected December 2027

Relevant coursework: Data Structures & Algorithms, Software Engineering, Discrete Mathematics, Theoretical Computer Science

EXPERIENCE

Full-Stack Engineering Intern · Eyebeamit · *Remote · Fashion-tech*

May 2025 – Aug 2025

- Shipped full-stack features end-to-end across the product surface — frontend interfaces, REST endpoints, and database schema changes — on a small team.
- Collaborated with design and engineering on weekly releases; owned slices of work from spec to production in a shared codebase.

Web Designer & Developer · ADEX Senegal · *Remote*

Apr 2021 – Present

- Sole developer behind the public website — redesigned the site end-to-end and ship maintenance updates in HTML, CSS, and JavaScript.
- Ran lightweight user research with stakeholders to inform iteration on layout, copy, and information architecture.

Programming Intern · IBM Youth Programming · *Lagos, Nigeria*

May 2019 – Jun 2019

- Built a multilingual emergency-response chatbot in JavaScript that classified injuries and surfaced first-aid guidance.

PROJECTS

Fallnn · iOS visual-search app for fashion

2025 – ongoing

React Native (Expo) · FastAPI · FAISS · FashionCLIP · SegFormer · Fly.io

- Solo build of an iOS app that segments outfits in a photo and returns buyable per-garment matches across ~34k products from 70+ DTC brands.
- Designed the retrieval pipeline (SegFormer-B2 → FashionCLIP embeddings → FAISS IndexFlatIP) and a personalized home feed seeded by a CLIP-space style centroid; deployed on Fly.io with pre-baked models for bounded cold starts.

Fashionnd · Personal AI stylist (in development)

2026 – in development

Expo (React Native) · ARKit · CLIP · Claude API · Three.js

- Shipped an 8-screen clickable iOS prototype across body scan, color analysis, Style DNA, closet, outfit-of-the-day, virtual try-on, and shop-the-gap; Expo scaffold underway with a Claude-driven rationale layer.

Atelier · Productivity dashboard for small teams

2024 – 2026

Next.js 14 · Drizzle ORM · Turso (libSQL) · Tailwind · TypeScript

- Built and deployed a no-auth public demo with tasks, notes, team, analytics, and settings; enforced membership checks on every server action (RLS-equivalent in app code).

Amie · Voice-first AI assistant

2024

FastAPI · OpenAI Whisper · GPT-4o-mini · TTS · Vercel

- Built a hold-to-talk web assistant with a four-step pipeline (Whisper → GPT-4o-mini → TTS) on Vercel, plus a 'quiet-by-default' wake-on-intent mechanism via a SKIP token and a small persistent memory layer.

SKILLS

Programming TypeScript, JavaScript, Python, C, C++, Java, SQL, HTML, CSS

Frameworks React, React Native, Next.js, Expo, FastAPI, Tailwind

ML / Vision PyTorch, Hugging Face Transformers, CLIP, FAISS, vector retrieval

Infrastructure Fly.io, Vercel, Docker, Supabase, Turso, Drizzle ORM

Spoken languages French (native), English (native), Spanish (intermediate), Arabic (intermediate)

VOLUNTEER

Founder · Cry For Consent · *Nigeria*

Jan 2020 – Dec 2022

- Founded an advocacy organization that gathered 10,000+ signatures on a petition to raise the legal age of consent in Nigeria from 11 to 16; presented proposed solutions to the Nigerian National Assembly and delivered a keynote at the SVAWG conference.