

Imanga Lufungulo

New York City

imangalufungulo@gmail.com | 419.769.7957 | LinkedIn: linkedin.com/in/imanga-l/

EDUCATION

Columbia University - Cumulative GPA: 3.53

New York, NY

Major: Computer Science

Expected Graduation: May 2029

Minor: Theatre and Film & Media Studies

Honors & Scholarships: Amazon Future Engineer Scholar, Coca-Cola Scholar, Taco Bell Live Mas Scholar

Relevant Coursework: Data Structures, Calculus I, Calculus III, Introduction to Java and Algorithms, AI in Context

TECHNICAL SKILLS

Programming languages & Frameworks: Python, Java, JavaScript, HTML, CSS, React(TypeScript), FastAPI, SQL

Machine Learning: AWS Bedrock(Claude), LLM, Natural Language Processing

Additional skills: Data visualization, Microsoft Office/Excel, UX design thinking, fluent in French

EXPERIENCE

Amazon Web Services

Bellevue, WA

Software Development Engineer Intern, CloudWatch

May – August 2026

- Designed and implemented an AI-powered telemetry rule suggestion engine using AWS Bedrock (Claude) and Python FastAPI that reduces telemetry configuration time from 1+ hour to under 1 minute
- Engineered a coverage-maximizing merge algorithm that analyzes existing Omnia rules and external AWS telemetry (VPC Flow Logs, Route 53 resolver logs, WAF logging) to generate optimal observability configurations
- Implemented pagination handling and data normalization for 100+ potential resource types with per-parameter best-practice specification

Care For All

Remote

Director of Technology, Full Stack Engineer

June 2026 – Present

- Lead product strategy and technical execution for a multi-stakeholder volunteer portal serving 100+ members, translating organizational workflows into scalable React/Supabase architecture with 8+ integrated modules
- Architect role-based access control and data validation system handling complex organizational hierarchies, designing database schemas and JSON-based state management that ensure data integrity across 1,000+ user interactions

PROJECTS

Loom | Python, FastAPI, numPY, JSON

- Developed an AI-powered knowledge assistant using Python FastAPI and AWS Bedrock (Claude) with RAG-based semantic search that reduces intern onboarding time from 3 days to 10 seconds by aggregating fragmented documentation across Slack, wikis, and internal tools
- Integrated Slack API and PhoneTool for real-time peer discovery and implemented upvoting algorithms to surface high-quality answers across intern cohorts

FitQuest | Python, React.js

- Led team development of an AI-driven fitness recommendation engine, designing ML pipelines for personalized nutrition and workout plan generation using classification/regression models trained on structured user input and real-time biometric signal data

LEADERSHIP & PROFESSIONAL DEVELOPMENT

SEO Career

New York, NY

SEO EDGE Participant

June 2026 – Present

- Built a strong foundation in core business concepts, directly strengthening competitiveness in top-tier internship recruiting
- Complete industry-specific training focused on developing technical skills, institutional knowledge, and attention to detail

STEM DRC Initiative

New York, NY

Volunteer Webmaster

Feb 2018 – Present

- Spearhead STEM education outreach to underprivileged students in the DR Congo via a website, achieving 100,000+ page views
- Outreach through website to help raise over \$95k to fund 185 STEM scholarships

Other Affiliations: Black Pre-Professional Society, ColorStack, NSBE, The Women's Network (Campus Ambassador), ONYX Hip Hop VP, Columbia University Entertainment Law, Ethics, and Business Society, Black Theatre Ensemble (Social Media Chair)