Olaoluwasubomi

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EDUCATION

ALB/ALM Computer Science (Accelerated Dual Degree Track)
Harvard University
2024 – 2027
Member: The Harvard Black Students Association

Associate of Science (A.S) Computer Science
Borough of Manhattan Community College
2021 – 2023
Awards: Dean's List (21,22,23), Foundation Scholarship Recipient, Student Government Association Scholarship Recipient, CUNY Mens Soccer Champion (22), The National Society of Leadership & Success Award, Peer Mentor (23), Senator (22)

Pre University Program, Ontario Secondary School Diploma, Pre-SAT
Aduvie Pre-University College
2020 – 2021

High School (Sciences)
Pace Setters College Federal Capital Territory, Nigeria
2014 – 2020

EMPLOYMENT HISTORY

Software Engineer Intern
Premium Merchant Funding
2024 – 2025
- Developed a dynamic sales leaderboard system with Node.js, Python, and PostgreSQL.
- Integrated automated analytics for seamless data transformation and performance tracking.
- Built scalable micro-services backend, reducing data latency by 85% with WebSocket and RESTful APIs.
- Created custom dashboards using React.js and D3.js for detailed sales performance insights.
- Collaborated with teams to enhance features, improve system efficiency, and user satisfaction.

Research Intern
Research Foundation of The City University of New York
2021 – 2023
- Engineered an automated data processing pipeline for Edu Soft software using Python, enabling seamless CSV ingestion, transformation, and integration to generate actionable analytics and insights for educators. Provided training sessions for educators on data analytics tools, promoting skill development, and empowering effective teaching strategies.

Software Development Intern
FlexiSAF Edusoft Limited
2016
Researched and contributed code enhancements to core modules of the SAFSIMS / SAFRECORDS education management systems, automating data workflows, and reporting pipelines for K-12 and tertiary clients.
- Developed prototype analytics scripts to ingest CSV data into FlexiSAF's systems and generate insight visualizations, supporting school administrators in data-driven decision making.
- Collaborated with cross-functional teams to test data integrity, validate system outputs, and document algorithm designs and performance trade-offs.

SKILLS

Languages: Python,GO (Golang), Rust,SQL,Typescript,Javascript,React,Node

Engineering: FFmpeg, HLS/LL-HLS, WebRTC, MP4, Adaptive Bitrate Streaming (ABR)

AI & Compute: JAX, Ray, PyTorch, CUDA, RLHF

Backend & Infrastructure: AWS (EC2, S3, IAM), Kubernetes, Docker, Redis/Valkey, PostgreSQL, REST APIs, gRPC, Load Balancing, Observability & Monitoring

Tools: Git, CI/CD, Linux Administration, Network Configuration, Secure System Deployment, PCI Compliance Practices

Machine Learning: PyTorch, JAX, Deep Learning, NLP, Reinforcement Learning, Neural Networks, Computer Vision, Pattern Recognition, RLHF Systems

LLM Engineering: Prompt Engineering, Fine-Tuning Pipelines, Token Optimization, Safety & Guardrail Systems

Data Engineering: ETL Pipelines, Analytics Workflows, CSV/JSON Processing at Scale

VOLUNTEERING

Collegiate Member - National Society of Black Engineers
Jun 2021- Present, years months

Assistant Judge - NYC FIRST

Member - American Society of Safety Professionals (ASSP)

Volunteer - New York Cares

Member - AnitaB.org

Member - Black in Tech

Field Technical Engineer II
Sentimen Technologies
2021 – 2025

- Executed 750+ deployments for Fortune 500 clients, achieving a 99.8% success rate.
- Managed multi-OS environments across 500+ endpoints, enhancing system reliability.
- Configured secure network infrastructure for PCI compliance, ensuring data integrity.
- Delivered 2/7 Level 2/3 support, resolving complex technical issues promptly.
- Administered Windows and Linux servers, optimizing performance and uptime.
- Developed streamlined procedures for network configuration, resulting in enhanced security and compliance for PCI systems.
- Provided expert Level 2/3 support with 2/7 availability, ensuring prompt resolution of issues and maintaining high client trust.

PROJECTS

Concya
Realistic Voice Engine Platform (Core Infrastructure)
• Built a real-time voice engine that generates human-level speech with natural rhythm and warmth.• Engineered a 300–500ms STT → LLM → TTS pipeline using Deepgram/Kyutai, vLLM on A100 GPUs, and Cartesia TTS.• Designed a session-aware conversation system with Redis for continuous memory and stable voice presence.• Built scalable infrastructure supporting 60+ concurrent live voice sessions per GPU with monitoring + safety tooling.• Developed cross-vertical APIs enabling Concya Engine to power both commercial and government applications.

Concya Reserve
• Applied the engine to automate bookings, waitlists, FAQs, and caller triage with human-like responses. • Built dashboards for caller insights, guest profiles, and reservation sync. • Helped early pilots recover missed calls and increase confirmed bookings.
Concya Atlas
• Extended the engine for citizen service lines, routing, and automated information centers. • Designed secure, compliant data pipelines for high-volume public-sector environments.

Omposition
AI Media Platform
AI platform designed to streamline creator workflows for high-fidelity product media and visual lookbooks. Developed the core Intelligent Synthesis engine (Omi), enabling controllable generation of photorealistic product variations in under 5 seconds.
Designed the platform for end-user distribution via browser extensions (Chrome/Safari) to facilitate real-time virtual try-on and enhance Human-Computer Interaction.

Palalel

Grokclips

Autonomous Video Generation & Streaming Platform

AI & Agentic Pipeline: Engineered an autonomous, multi-step agentic planner to convert 1M+ Grokipedia articles into video scripts.

• **RLHF Loop:** Built a high-concurrency "TikTok-style" interface that captures user engagement signals for Reinforcement Learning from Human Feedback (RLHF) training data.

• **Distributed Compute:** Utilized a Ray-based ingestion engine and designed a decentralized compute chain for distributed video generation costs.

• **High-Scale Media Infrastructure:**

Video Delivery: Implemented automated transcoding with FFmpeg to optimize raw outputs into low-latency HLS/H.264 streams for efficient playback.

• **Scale:** Pipeline designed to process high-volume text entities for continuous content delivery.