MORGAN ANUNDA

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EDUCATION

Johns Hopkins University **Baltimore, MD**

Bachelor of Science in Computer Science *Expected May 2029*

Hodson Trust Scholar, 2025

Activities: National Society of Black Engineers (Senator), Jane Street FTTP, Course Assistant for Gateway Computing: Python, Black Male Initiative, PAVA Center for Entrepreneurship

EXPERIENCE

Johns Hopkins University School of Medicine **Baltimore, MD**

Research Assistant *May 2026 - Present*

- Built a 7-stage diffusion-MRI analysis pipeline (Python, Bash) and parallelized it on a Linux HPC cluster with SLURM job arrays, running ~1.9B Monte Carlo streamline simulations as 85 independent jobs, cutting runtime ~30h to <2h (~17x).
- Traced a false result to a normalization artifact; built a validation layer that recomputed all outputs from source (100% match).
- Building Spark SQL extraction and quality-control queries on Databricks for a clinical study in a secure research enclave.

AssistiveMath **Nairobi, Kenya**

Software Engineer *June 2025 - Present*

- Engineering features for a startup backed by a six-figure Mastercard Fellowship and $40K+ in pitching awards.
- Built an accessible calculator in Vue 3/Nuxt and TypeScript for visually impaired students: expression-evaluation engine, full keyboard control, and MathML output so screen readers speak equations correctly.
- Fixed WCAG AA contrast and ARIA failures blocking core calculator functions and grew unit tests from 36 to 189 (Vitest), adding Playwright end-to-end and automated accessibility checks.

diiVe Consulting **Cape Town, South Africa**

Project Manager, Client Consulting Team *May 2026 - July 2026 (Remote)*

- Led a 4-person team in a 12-deliverable engagement; delivered final recommendations on time with client sign-off for execution**.**
- Conducted financial modeling, led extensive market research to develop a GTM strategy targeting ~$200K USD in ARR by March 2027

Brain-Computer Interface Society at Johns Hopkins **Baltimore, MD**

Decoding Subteam Member *September 2025 - May 2026*

- Built an end-to-end PyTorch pipeline to reconstruct images a person perceived from 17-channel EEG; mapped signals to CLIP embedding space to condition Stable Diffusion; set up inference as a Dockerized FastAPI service with CI.
- Improved reconstruction fidelity 4.8x (CLIP similarity 0.72 vs. 0.15) by evolving the pipeline from a GAN to a CNN encoder and diffusion generator.

PROJECTS

SokoIQ | *Equity research platform, Nairobi Securities Exchange*

- Architected a 4-agent LangGraph pipeline synthesizing live NSE market prices, revenue/profit disclosures, and news sentiment into BUY/HOLD/SELL/NEUTRAL investment briefs for 10 NSE-listed equities; used Claude Haiku for thesis generation.

LEADERSHIP EXPERIENCE

For a Smile's Sake **Kenya**

Advisory Board Member *August 2024 - Present*

- Advise youth-empowerment initiatives (2K+ beneficiaries) and guide a volunteer network across seven regions across Kenya, Uganda and the Diaspora

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL, Excel, HTML & CSS, TypeScript/JavaScript

Systems/Tools: Git, GitHub, FastAPI, Vue/Nuxt, Linux, Bash, SLURM, Docker, Next.js, Singularity, Databricks, Spark SQL