

Jonas L. Kgomo

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Summary

Software engineer and technical leader building AI infrastructure and products. **Expertise:** ML systems engineering, LLM training/fine-tuning, formal methods, and developer tools. **Founded** multiple technical products, including Explore Policy, Veridity, Merit, and Delphi.

Education

MSc Advanced Computer Science, University of Sussex (UK) 2021 – Aug 2023
Thesis: Thermodynamic Computing and Algorithmic Energy Complexity

BSc Mathematics, Istanbul University (Turkey) Sep 2012 – 2016
Graduated in the 95th percentile

Technical Leadership & Projects

Director & Engineering Lead, [Equiano Institute](#) April 2023 – Present

- Lead engineering strategy and ML systems for research projects. Manage AI model training and fine-tuning initiatives with OpenAI.
- Founded and direct a research lab focused on AI safety, alignment, and policy in developing markets.
- Built the institute's [public website](#) and core technical infrastructure.
- Delivered research and technical projects for clients including UNDP, London City Intelligence, and the Tony Blair Institute (TBI).
- Train teams on compute optimization and AI system design through workshops and mentorship.
- Led 50+ translation teams and 10+ research groups across AI safety, policy, and technical alignment.

Founder & Lead, Merit ([AI Hiring Simulation Initiative](#)) 2026

- Built proof-of-work hiring platform using AI to simulate and optimize recruitment workflows.
- Built from concept to working product; full stack development (frontend, backend, ML pipeline).

Founder, Engineering Lead & Simulation Manager, [Explore Policy](#) 2026

- Lead the engineering and simulation initiative, managing three engineers and policy researchers building an interactive AI policy simulation and governance explorer.

Founder & Chief Engineer, Veridity (AI Verification Research App) 2026

- Built a verification-guided research application exploring the correctness of AI-generated code through formal verification and machine-checkable proofs.
- Technical focus: formal methods (Lean, Coq), AI security, and automated verification workflows.

Projects

- [Foundry](#), foundation model for typography that treats fonts as coherent design systems; milestone one validates the core generation loop.
- [Delphi](#), semantic AI survey builder and conversational interviewing agent with structured response collection.
- [Wikipedia Search Demo](#), search and retrieval demo spanning 10 million Wikipedia articles.
- [Gödel](#), Go-based, GPU-driven cross-platform development engine for native applications using WebGPU.
- [Hear This Idea](#), contributed code to the research podcast's open-source GatsbyJS website.

Engineering Experience

Research Collaborator & Software Engineer, Harvard Ash Center & University of Cambridge March 2024 – Present

- Cambridge (with Fields Medalist Timothy Gowers): developing software infrastructure for automated theorem proving using Lean and Coq; building verification tools for AI-assisted proofs.
- Harvard Ash Center: research on governance of emerging technologies with technical implementation focus.

Software Engineer, Tribe Community Platform (Remote) April 2021 – August 2021

- Developed reusable component library using React, Next.js, TypeScript; established patterns used across 5+ customer deployments.

Software Developer, Bohr Technology (Poland) December 2018 – April 2019

- Researched and implemented quantum optimization algorithms for Travelling Salesman Problem using ProjectQ framework; benchmarked against classical solvers.

Founder In Residence, Entrepreneur First (London, UK) August 2022 – December 2022

- Selected as 1 of 50 founders from 1,000+ applicants for top-tier tech talent accelerator.

Program Lead, VR First, Bahçeşehir University 2016 – 2018

- Led developer education on immersive technology and VR systems; built curriculum and mentored 50+ engineers.

Codex & Cursor Ambassador and Technical Advisor

- Organise developer events and lead hands-on technical AI programming workshops for Cursor and Codex.

Technical Training & Mentorship

Trained engineers on AI systems, compute optimization, and technical depth through SPAR AI Alignment, Orion Fellowship, AI Safety Camp, and Algoverse.

Speaking & Research

Selected Talks & Workshops:

- **Frontier Model Forum, India AI Impact Summit 2026:** Panel on AI and cybersecurity, “Securing the Future of AI: Harmonizing Frameworks and Approaches,”
- **Africa Just AI Conference 2026,** Johannesburg, SA:
Presented *The Redress Clause for Transitional AI Impacts*, proposing a transitional-justice mechanism for addressing AI’s societal impacts at the inaugural conference on “Grounding AI Governance in Justice.”
- **London Data Week Workshop – (2024–2026),** King’s College London: workshop organiser on AI and City Intelligence.
- **Additional talks:** Oxford Summit, AI Action Summit (France), and UN Digital Compact.

Selected Research:

- [*Large Language Models Are More Persuasive Than Incentivized Human Persuaders*](#)
- [*The Grand Illusion: The Myth of Software Portability and Implications for ML Progress*](#)
- [*AI4Policy: AI-Enabled Scenario Planning for Policy-Making in the Age of AI*](#)
- [*Case Studies of AI Policy Development in Africa*](#)
- [*Uhura: A Benchmark for Evaluating Scientific Question Answering and Truthfulness in Low-Resource African Languages*](#)

Technical Skills

Programming Languages & Frameworks: Python (primary), Go, Rust, TypeScript, JavaScript, React, Next.js, TensorFlow, PyTorch, LLM APIs, vector databases

AI & ML: AI model training and fine-tuning, including LLM training and fine-tuning; prompt engineering, agent systems, vector embeddings, RAG systems, inference optimization

Systems: Formal verification (Lean, Coq), automated theorem proving, system design, optimization, dev tools

Data: Data pipelines, feature engineering, benchmarking, evaluation metrics

Languages: English, Turkish, Afrikaans, Northern Sotho