

# Jonas L. Kgomo

Software Developer

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BSc Mathematics, MSc Software Engineering with experience in research and industry.  
Interested in unconventional computing and technological progress.

## EDUCATION

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### University of Sussex

United Kingdom

MSc Advanced Computer Science

2021 - August 2023

- Masters course at University of Sussex
- **Thesis:** Thermodynamic Computing and Algorithmic Energy Complexity

### Istanbul University

Turkey, Istanbul

B.Sc Mathematics

Sept. 2012 -2016

- Studied courses in Pure and Advanced Mathematics courses , graduated in the 95th percentile

## SKILLS

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Languages

- **Web & Mobile Dev:** React JS , JavaScript, TypeScript, Node.js, GraphQL, PostgreSQL, MySQL, Dart , C#, Python, HTML
- **Machine Learning:** Julia, JAX, Tensorflow, Jupyter, Julia, Pytorch   **Spoken:** English, Turkish, Afrikaans

## EXPERIENCE

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### Founder

Nairobi, Kenya

Equiano Institute

April 2023 - Present

- A research lab focusing on AI alignment and policy for African organisations
- Training young African talent to be involved in Artificial Intelligence Governance & Alignment Frameworks

### Independent Researcher

UK, Brighton

Progress Studies Journal

August 2020 - Present

- An overlay journal distilling research aimed at technological progress, responsible innovation and institutional development.
- Created an Editorial Board with Stripe, Institute of Progress and Harvard Business Economics researchers at [progress studies](#)

### Founder In Residence

UK, London

Entrepreneur First

August 2022 - December 2022

- Talent accelerator for forming partnerships and ideas with entrepreneurs selected from 1000+ applicants to join Entrepreneur First's platform. Working with a community of entrepreneurs and leading advisors to build a projects at [Entrepreneur First](#)

### Volunteer

London, Remote

y4cm Cambridge University, Timothy Gowers Mathematics Group

June 2022 - Present

- Developing research and software for the human-compatible [automated theorem proving](#) for the LEAN theorem prover [Cohere](#)
- Leading African Language Models at Cohere For AI which accelerates independent research, supervised by Sara Hooker
- Leading AI Safety talks & mentorship program. Invited AI Safety researchers from Anthropic, Stanford and DeepMind

### Software Engineer

SF, Remote

Tribe Community Platform

April - August 2021

- Developing **Web** components using React and Next JS for the tribe.so platform
- Building front-end functional UI for customers to design their own components

### Software Developer

Poland

Bohr Technology

Dec. 2018 - April 2019

- Researching quantum optimization algorithms for solving a classical the Travelling Saleman Problem on ProjectQ, ETH

### Research

- **The Grand Illusion:** The Myth of Software Portability and Implications for ML Progress - *Fraser Mince, Dzung Dinh, Jonas Kgomo, Neil Thompson, Sara Hooker*

### Projects

- **AI Planner:** an LLM-assisted planner with **personal tasks** and AI assisted autofill and recommendation. [Assistor](#)
- **Semantic Wikipedia:** [SemanticWiki](#) is a semantic search on wikipedia(100M articles) with NLP and visualise embeddings
- **AI Travel Assistance :** using LLMs to create a **travel** experience [TravelGPT](#)