

Surafel Kindu Mulaw

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Addis Ababa, Ethiopia

AI SPECIALIST AND FULL-STACK DEVELOPER

Full-stack developer, ML engineer & n8n specialist with over 5 years of experience in building scalable applications AI, SaaS & Enterprise solutions. Passionate about leveraging new AI technologies, including large language models (LLMs) and fine-tuning models for domain-specific applications. Demonstrated my expertise in researching, designing, and deploying AI-driven systems, such as a hate speech detection model for Amharic and advanced data analysis tools for healthcare and finance. Skilled in Python, TensorFlow, and PyTorch, with a strong focus on using machine learning to optimize processes and enhance decision-making.

Complementing this is extensive experience in full-stack development, specializing in frameworks and tools such as Django, React, Node.js, and Flutter, enabling the creation of secure, scalable, and intuitive web and mobile applications.

TECH SKILLS

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|--------------|----------------|--------------|--------------|-------------|
| • Python | • React Native | • Django | • N8N | • LangChain |
| • TypeScript | • React.js | • MongoDB | • Tensorflow | • Node.js |
| • JavaScript | • Next.js | • Postgresql | • Numpy | • Pandas |
| • Java | • Web3 | • Clickhouse | • Pytorch | • Java |

PROFESSIONAL EXPERIENCE

TestSavant.AI (testsavant.ai)

May, 2024 - Present

Senior Full-Stack Engineer (Django, Next.js, N8N, TensorFlow, Clickhouse, Web3)

- At TestSavant, I develop and fine-tune AI models to secure systems against prompt injection, regex attacks, toxic prompts, and other AI security issues.
- I also lead the development of a web app using Django and Next.js, streamlining backend workflows and enhancing efficiency by 60%.
- Working on custom n8n community package, python sdk and typescript package for AI Guard (TestSavant Guard).

Tefer.io (www.tefer.io)

Dec, 2023 - May, 2024

Senior Software Engineer (Django, React.js, AWS)

- Led the expansion of StableDuel to the UK market by developing an interactive website with live streaming and account management.
- Designed and deployed promotional contest features, driving user engagement by 25%.
- Streamlined development processes, reducing deployment time by 20% through automation and best practices.

Project Links: [Stableduel](#)

Auction Ethiopia (auction-ethiopia.com)

Nov, 2022 - May, 2024

Mobile Application Developer (React Native - Expo)

- Designed and developed a cross-platform mobile application for online bidding using React Native and Expo.
- Enhanced app performance, resulting in a 15% increase in user retention.
- Successfully launched on both Android and iOS platforms, driving over 50,000 downloads.

Project Links: [Android](#) & [IOS](#)

Lomi Funds PLC (<http://lomifunds.org/>)

Jun, 2022 - Nov, 2022

Full Stack Developer (*Node.js & React Native*)

- Developed and maintained a financial services platform using Node.js and React Native, enabling seamless cross-platform functionality.
- Integrated RESTful APIs for authentication and data exchange, reducing response times by 20%.
- Enhanced system reliability and security, supporting millions of secure transactions annually.

Project Links: [Lomi Funds](#)

Africrowds

Sep, 2021 - Jun, 2022

Senior Web Developer and UI/UX Designer (*React.js, Material UI & Svelte*)

- Developed and designed Africrowds, a platform that aims to double the fundraising by African startups from \$5 billion in 2021 to \$10 billion by 2023 by digitizing the funding process.
- Implemented modern UI/UX principles to enhance user experience, boosting user engagement metrics by 30%.
- Collaborated with stakeholders to deliver on ambitious project deadlines without compromising quality.

EQUB Financial Technologies (www.equb.app)

Nov, 2020 - Dec, 2021

Frontend Developer (*Flutter*)

- Built and deployed the EQUB app, a savings and credit platform, on Android and iOS.
- Designed intuitive user interfaces using Flutter and Material UI, leading to a 35% increase in user satisfaction scores.
- Ensured cross-platform compatibility, reducing reported bugs by 50%.

Project Links: [Android](#) & [IOS](#)

EDUCATION

Addis Ababa University | Addis Ababa, Ethiopia

Bachelor's Degree in Software Engineering

RESEARCH INTERNSHIPS

AI & Machine Learning Research Internship (*Python*)

Feb 2020 - Mar 2020

Advisor: Varun Dutt, M.S., Ph.D.

Associate Professor, IIT Mandi, India.

IIT Mandi, India (www.iitmandi.ac.in)

- A one-month research internship focused on understanding machine learning and deep learning.
- Developed and trained machine learning models using Python, TensorFlow, and PyTorch to analyze type-2 diabetes data and generate insights and recommendations.

Hate Speech Detection and Classification ML Model for Amharic (*Python*)

Aug 2021 - Nov 2022

Advisor: Elefeliious Getachew Belay, Ph.D.

Assistant Professor, Addis Ababa University, Ethiopia.

Addis Ababa Institute of Technology, Ethiopia

[Project link](#)

- I developed a Hate Speech Detection and Classification ML Model for Amharic, employing Transfer Learning techniques for enhanced accuracy.
 - Established a user-friendly data annotation platform using a Telegram bot and website, engaging campus students in crowdsource labeling, identifying hateful phrases, and rating aggression levels.
 - Expanded project impact by hosting a feature-rich website, integrating a Twitter API to map recent Amharic hateful posts geographically, alongside a function enabling users to analyze paragraphs or essays for hateful content.
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