

# Sidney Kaguli

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## SUMMARY

A dynamic Full-Stack Developer, AI innovator, and entrepreneur with proven expertise in building profitable, market-driven products using cutting-edge AI technologies (Generative AI, LLMs). Passionate about leading collaborative teams to develop impactful, user-centric web applications and leveraging AI to solve real-world problems.

As Co-founder of Usa Prospects Agent and Kodaschool, I have a track record of translating vision into successful ventures. My commitment to empowering Africa's tech talent is further demonstrated through my role as a Board Member and Software Engineering & AI Instructor at Code Kenya, where I contribute to leadership, curriculum development, and mentorship. Eager to apply this blend of technical expertise, entrepreneurial acumen, and teaching experience to projects with significant social and economic impact.

## EDUCATION

MICROVERSE Remote  
May, 2022 – Feb, 2023

### **Web Development Program based in San Francisco, California**

- Spent 1300+ hours mastering algorithms, data structures, and full-stack development while simultaneously developing projects with Ruby, Rails, JavaScript, React, and Redux.
- Developed skills in remote pair-programming using GitHub, industry-standard gitflow, and daily standups to communicate and collaborate with international remote developers.

MULTIMEDIA UNIVERSITY OF KENYA

### **Degree, Software Engineering** September, 2017 – December, 2022

- Acquired proficiency in Algorithms and Data Structures, Object-Oriented Programming, Database Systems, Operating Systems, Computer Networks, and SDLC.
- Authored a research paper on the implementation of a private blockchain network for property management.

## EXPERIENCE

[Usa Prospects Agent](#)

### **Co-founder & Lead Software Developer** Dec, 2024 – Present

- Co-founded and led the technical development of an innovative platform empowering African students to successfully navigate U.S. college applications for undergraduate, Master's, and Ph.D. programs.
- Engineered and integrated a proprietary AI Essay Reviewer leveraging Natural Language Processing (NLP) and LLMs to provide instant, actionable feedback on application essay drafts, improving uniqueness, voice, authenticity, hook, flow, and conciseness.
- Developed an AI copilot that delivers personalized recommendations and curated expert resources, guiding students through complex application processes and enhancing their preparedness.
- Designed and implemented features for automatic tracking of essay versions, reviews, and score progression, enabling students to monitor their improvement and strategic development.
- Played a pivotal role in user acquisition and platform growth, resulting in increase in successful student placements, 200 active monthly users and positive testimonials from students who secured admissions/scholarships.
- Successfully monetized the platform through premium features and usage based billing leading to initial revenue generation.

## [Code Kenya](#)

### **Board Member, Software Engineering & AI Development Instructor**

October, 2024 – Present

- Serve on the board, contributing to strategic direction and growth of a leading institution fostering tech entrepreneurship among a diverse cohort of aspiring tech founders, including software engineering/computer science students and any student or youth eager to embark on a tech entrepreneurial journey.
- Design and deliver advanced curriculum on Software Engineering and Artificial Intelligence, focusing on practical application and real-world projects.
- Instruct aspiring developers in Generative AI, LLMs, and machine learning fundamentals, equipping them with skills for the modern tech landscape.
- Mentor students on product development, AI ethics, and startup scaling, fostering innovation within the local tech community.

## [Kodaschool](#)

### **Full-stack developer**

Feb, 2023 – Present

- Translated Figma designs into efficient Next.js, TypeScript, and TailwindCSS code, enhancing user experiences.
- Integrated Stripe payments, ensuring secure and streamlined transactions on the platform.
- Collaborated closely with clients, transforming visions into actionable plans and iterating based on feedback.
- Established automated deployment pipelines with GitHub Actions, deploying applications on Amazon EC2 for reliability.
- Played a pivotal role in growing the daily users from 0-658 currently, implementing strategies that enhance user engagement and satisfaction.

## [Microverse](#)

### **Mentor (Volunteer)**

Remote

July, 2022 – Feb, 2023

- Mentored junior web developers, providing technical support through code reviews.
- Proposed improvements to code organization to improve code quality and overall performance.
- Provided advice and tips on how to maintain motivation to maintain longevity in the program.

## **SKILLS**

**Front-End:** JavaScript, React, Redux, Nextjs, Tailwind, Sass, Bootstrap, HTML5, CSS3, Framer Motion

**Back-End:** Ruby on Rails, Nodejs, GraphQL, PostgreSQL, Supabase, Firebase, MongoDB.

**LLM & Generative AI Development:**

- **Frameworks & Orchestration:** Langchain, LlamaIndex
- **Models & Techniques:** LLM Fine-tuning, Prompt Engineering, Retrieval Augmented Generation (RAG)
- **Platforms & SDKs:** Hugging Face Transformers, Vercel AI SDK, Google Cloud Vertex AI, Google Gen Kit.
- **Vector Databases:** Pinecone, PostgreSQL, Supabase (with pg vector extension for vector storage & search)
- **Core Concepts:** Natural Language Processing (NLP), Computer Vision

**Tools & Methods:** Git, GitHub, Heroku, Mobile/Responsive Development, RSpec, Jest, TDD, AWS Amplify, Appsync, Lambda, Cognito, Photoshop, Illustrator.

**Professional:** Remote Pair-Programming, Teamwork, Mentoring