

Contact

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Top Skills

Artificial Intelligence (AI)
Natural Language Processing (NLP)
Large Language Models (LLM)

Certifications

HTML and CSS in depth
McKinsey Forward Program
Advanced React
Fundamentals of LLMs
[PCAP-31-03] PCAP – Certified Associate in Python Programming

Honors-Awards

John W. Carlson Research Grant
Bertelsmann Next Generation Tech Booster

Alex Kagozi

Software Engineer | AI Researcher
United States

Summary

I'm a passionate software engineer and AI researcher with over four years of experience architecting scalable systems and creating impactful digital solutions. My expertise encompasses full-stack development, cloud-native applications, and AI-driven technologies where I blend deep technical skills with a strong product mindset.

Throughout my career, I've contributed to a wide range of projects from modernizing monolithic applications into microservices, building real-time messaging and e-commerce platforms, to developing USSD interfaces and integrating with payment gateways.

Alongside this, I'm deeply engaged in artificial intelligence and machine learning, particularly in areas such as reinforcement learning, convolutional neural networks (CNNs), multilayer perceptrons (MLPs), and IoT-driven automation systems. I love experimenting with smart systems that learn, adapt, and connect the physical and digital worlds.

Core Stack: FastAPI, TypeScript, NestJS, Vue, MongoDB, Nuxt 3, Firebase, Tailwind

Cloud & DevOps: Kubernetes, GKE, Helm, Docker, AWS, CI/CD

AI & Smart Tech: Python, PyTorch, TensorFlow, OpenCV,

Reinforcement Learning, CNNs, MLPs, IoT

Key Strengths: Scalable architectures, ML integrations, cross-platform systems, API design, clean and maintainable codebases.

Experience

University of South Dakota
Graduate Research Assistant
September 2025 - Present (5 months)
South Dakota, United States

NSF I-Corps Hub Great Plains
NSF iCorps Entrepreneurial Lead
June 2025 - July 2025 (2 months)
United States

- Designing and refining product direction based on real user feedback around bookmark and tab organization habits.
- Collaborating with engineering and research teams to develop an AI-powered, privacy-first browser extension that runs fully locally.
- Building a semantically meaningful folder structure using natural language processing and intuitive UX patterns.
- Driving early-stage marketing and outreach efforts to grow our user research base and shape a product people want.

Triply.co
Full Stack Engineer
October 2023 - December 2024 (1 year 3 months)
Nairobi County, Kenya

MediaPal
Software Developer
March 2022 - October 2023 (1 year 8 months)
Nairobi, Kenya

Nano Digital
Full Stack Developer
March 2022 - October 2023 (1 year 8 months)
Nairobi County, Kenya

Morans Kenya
Software Developer
September 2020 - December 2021 (1 year 4 months)
Nairobi County, Kenya

Education

University of South Dakota
Master of Science - MS, Computer Science · (January 2025 - December 2026)

Udacity

Nanodegree, Artificial Intelligence · (September 2024 - January 2025)

Udacity

Nanodegree, ALX-T Cloud Developer · (November 2022 - February 2023)

The Technical University of Kenya

Bachelor of Engineering - BE, Civil and Structural Engineering · (January 2016 - August 2021)

Rongai Agricultural and Technical High School

KCSE · (January 2011 - December 2014)