

MAINA NORBERT OSIEMO

Professional Summary: Versatile Software Engineer with strong experience in full-stack development, AI systems, and data analysis. Proficient in Python, Django, Flask, React, and C, with solid DevOps and database management skills. Successfully built secure web apps, automated workflows, and mentored developers at ALX Africa. At Turing, contributed to LLM fine-tuning and agentic AI research using RLHF and ReAct. Holds a BSc in Mathematics and Computer Science from Machakos University and a Software Engineering certification from ALX Africa. Passionate about generative AI, agent design, and scalable solutions.



WORK HISTORY

- 2022-01 -
2022-12

Web Developer

Freelancing:

 - Developed secure authentication systems that protected sensitive user data while providing seamless login experiences.
 - Developed Python-based solutions for complex problems, ensuring code readability and efficiency.
 - Streamlined website maintenance tasks for increased efficiency and improved site functionality.
 - Implemented responsive and visually appealing user interfaces with Tailwind CSS, enhancing the user experience across multiple projects.
 - Successfully delivered freelance projects by combining technologies such as Django, React.js, Laravel, and Node.js, ensuring seamless functionality and high performance.
 - Conducted data analysis and used insights to inform business solutions, particularly through public databases.
 - Provided feedback and optimized code solutions for various teams, improving the performance of multiple projects.
 - Documented processes, test plans, and software solutions to streamline project handover and ensure long-term maintainability.
 - Built and deployed Laravel-based applications, utilizing its powerful features for secure and efficient backend development.
 - Provided front-end development support, creating visually appealing designs that aligned with brand standards.
 - Developed and maintained full-stack web applications using Django and React.js, integrating



CONTACT

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SKILLS

- CSS (Tailwind Framework).
- JavaScript (Vanilla JS).
- React Js
- HTML
- PHP Laravel
- Python
- Flask
- MYSQL
- C
- Python
- Technical Writing
- Django
- DevOps
- Node Js

	MySQL and PostgreSQL databases for robust data management.'	• MongoDB • Next Js • Typescrop
2021 – 01 - 2021 - 06	Statistician <i>KNBS, Kenya:</i> • Participated in data collection • Carried out surveys • Data science • Analyzed data using Excel and SPSS • Data entry, surveys, and Data Cleaning • Conducted data analysis and used insights to inform business solutions, particularly through public databases. • Provided feedback and optimized code solutions for various teams, improving the performance of multiple projects. • Collaborated with developers and testers, improving software quality by implementing robust test plans.	 TRAININGS & CERTIFICATION NS Ajira Digital Training <i>(ICT Authority Kenya)</i> Skills: • Google Research papers • Content Creations • professional document formatting • Digital Marketing
2024-08 – 2024 - 11	Software Engineer Tutor <i>ALX Africa:</i> • Mentored students in software development, focusing on defining and building minimum viable products (MVPs). • Provided hands-on support in debugging and improving projects built with Flask and React.js. • Taught GitHub collaboration best practices, including branching, pull requests, and version control. • Helped students deliver functional, scalable applications with improved code quality and project workflows.	Fundamentals of Artificial Intelligence <i>(ALX Africa)</i> Skills: • Generative AI Content Creation • AI-Powered Graphic & Brand Design • Vision-Language Model Utilization • Generative AI Deployment • Conversational & Productivity AI Tools
2024 - 08 - Present	Turing - California, USA <i>Remote:</i> RLHF Agentic Reviewer – Apple Project: • Reviewed and evaluated agentic conversation designs involving tool-augmented assistants simulating real-world tasks. • Ensured high-quality notebook submissions from trainers by validating reasoning flow, tool integration, and output integrity.	Certification in Fundamentals of AI Agents • LLM and Tokenization Mastery

- Simulated user-assistant interactions with corrective tool use to guide goal completion or articulate task limitations.

Sub-Lead – Agentic AI

- Led and mentored LLM trainers working on agentic tasks involving tool use, API calls, and contextual reasoning.
- Reviewed training data to ensure alignment with goals of building agentic, reasoning-capable AI systems.
- Oversaw quality control processes for tasks involving tool-augmented LLM decision-making.
- Collaborated cross-functionally to define training protocols and ensure consistency in data labeling and review.
- Participated in daily syncs to share insights, offer improvement suggestions, and maintain alignment with project goals.

Software Engineer (LLM C Developer)

- Fine-tuned LLMs using Supervised Fine-Tuning (SFT) and Reinforcement Learning with Human Feedback (RLHF).
- Focused on improving model behavior in coding tasks using Python, SQL, and PostgreSQL environments.
- Enhanced LLMs' contextual understanding, problem-solving, and decision-making abilities toward AGI objectives.
- Contributed to mentorship and AI research initiatives, fostering knowledge-sharing and innovation across engineering teams.

- Agent Architecture & ReAct Framework
- Tool Integration for Autonomous Agents
- Hands-on Development with SmolAgents
- Natural Language Processing (NLP) & AGI Foundations

Peer Counseling

(Mksu Peer Counseling dpt.)

Skills:

- Life Skills
- Time Management
- Self-awareness
- drug abuse and prevention

Google Digital Skills

(Google)

Skills:

- Social Media Marketing
- SEO
- Email Marketing



EDUCATION

2023 – 02
- 2024-04

Software Engineering

Holberton School (ALX)

- C Programming
- Linux OS
- Python
- Django
- DevOps (Web Debugging, Web Server Management, Load Balancing, Bash Scripts Web Deployment, Web Monitoring (Data-Dog



GENERAL COMPUTER SKILLS

- Graphics Design
- Photoshop and publisher
- High typing speed.
- PowerPoint presentation.

- Configuring and deploying websites in Nginx and Apache, Database Replica)
- REST AND FAST APIs handling
- Team Collaboration (Trello, Zoom, MS Teams)
- GitHub collaboration

2017- 09 -
2022-04

Bachelor of Science: Mathematics and Computer Science

Machakos University - Machakos

- Completed Coursework: BSc. Mathematics and Computer Science, [2022]
- Degree Awarded with [Second Class Honors]



PROJECTS

1. Welfare Management System

Period: Between (January 202 – March 2024)

Description: The project seeks to address the challenges associated with the inefficiencies of manual record-keeping, lack of transparency, and difficulties in maintaining accurate financial records in welfare. The project aims to streamline and automate these processes, fostering transparency, accountability, and ease of access to welfare-related information.

Technologies Used:

- Next.js
- Django
- Tailwind CSS

2. Nobertechx

Description: This is my blogging website where I write and post articles regularly on the website about technology and topics of interest. I use it as a website for motivating and inspiring others.

Technologies Used:

- Laravel
- React Js

3. Airbnb Clone

Description: This is a Website Similar to Airbnb Vacation Rental Company. People can add homes and users can search and book for vacation

4. Olkisir

- Data Analysis- Excel, SPSS, python, tableau.



STATISTICS SKILLS

- Descriptive statistics analysis
- Design and analysis of experiments.
- Carrying Planning out surveys.
- Analysis of data using Excel (Pivot tables).
- SPSS data analysis.
- Python for data analysis.



EMPLOYABILITY SKILLS

- Effective communication
- Problem identification
- Team-working
- Working under pressure
- Leadership



PROGRAMMING TOOLS

Text Editors

- Vs Code
- Linux Vi
- Notepad
- Sublime Text

Collaboration Platforms

- GitHub

Description: A comprehensive Dispatch>Returns System designed to streamline sales order management and enhance the handling of product returns within an organization. By providing efficient tracking of goods and services from dispatch to customer premises and facilitating seamless returns processing, Olkisir aims to optimize operational efficiency, reduce costs, and improve customer satisfaction. The project is built in tailwind, Django, and react js.

Technologies Used:

- Django
- React Js
- Tailwind

5. Kibhoret

Description: Is a raw material management system for an oil production company. The system is built with Django, next JS, and Typescript. Users have different privileges and dashboards where they monitor and do checks on trucks carrying materials from the loading terminus to offloading at the company.

Technologies Used:

- Django
- Next Js
- Tailwind

- Google Meet
- Slack
- Discord
- Trello

Whiteboarding Tools

- Jam board



REFEREES

Name: Akarsh Katiyar, (Ph.D.)

Position: Team Lead, Turing

Telephone: +91 89537 31431

Name: Dr. Elijah Muange, (Ph.D.)

Position: Lecturer Machakos University

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Name: Mr. George Mutti

Position: Software Developer at Jacaranda Health

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