

ALMOND KIRUTHU MURIMI

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EDUCATION

Master of Science in Engineering Artificial Intelligence

Expected 2027

Carnegie Mellon University

Relevant Coursework: Mathematical Foundations for Machine Learning, Machine Learning, Data Structures and Algorithms for Engineers, Artificial Intelligence System Design, Advanced Database Systems, Cloud Computing, DevOps.

Bachelor of Science in Computer Science

2021 - 2025

Kabarak University, CGPA: 3.7/4.0

EXPERIENCE

Software Engineer Intern

Jun 2025 - Aug 2025

IBM

Nairobi, Kenya

- Improved the performance of the GeoSpatial Studio Web Application by 21% by migrating the application from carbonV10 to carbonV11 which led to improved GPU utilization on the client's device.
- Developed a Selective Component Rebuild Algorithm that led to 77% increase in the build time process of components in an inference pipeline service.
- Enhanced the Inference status feedback by creating a state machine and reconciliation logic that enabled an inference to transition between states making the inferencing process more dynamic to the user.

Software Engineer Intern

Jun 2024 - Aug 2024

IBM

Nairobi, Kenya

- Developed the Fine-Tuning and Dataset Factory User Interfaces for the Watsonx Geospatial Project utilizing JavaScript and Web Components enabling businesses to analyze climate data.
- Engineered a diffing algorithm that led to 50% increase in optimization of the fine-tuning payload objects by utilizing DFS tree traversal.
- Increased JavaScript application test coverage by 12%, improving reliability.

PUBLICATIONS

- 'How Machine Learning-Data Driven Replication Strategies Enhance Fault Tolerance in Large-Scale Distributed Systems'** Submitted in partial fulfillment of the requirements for a B.S. in Computer Science (Kabarak University - May 2025).

PROJECTS

- Study Buddy AI.** Built an AI-powered PDF summarizer tool using React, TypeScript, Open AI APIs, langchain and pinecone DB. It improved study efficiency by 60% based on the 200+ students that tested it out.
- RollingBoard.** Built a project management tool that cuts the typical software cost for SMEs and Startups by 80% and reduces setup time from days to minutes; using Typescript, React, Hono, Appwrite, and Next.js.

ACHIEVEMENT

- Led my team to a Second-Best Innovative Idea award at the County Level Kenya Science Congress, competing against 100+ teams in the Computer Science category.

SKILLS

Programming

TypeScript, JavaScript, C, C++, Python, PostgreSQL, MongoDB

Frameworks

Express.js, React.js, Next.js, Fast API

DevOps

Docker, Kubernetes, Terraform, Jenkins, Boomerang