

Linus Brian Okoth

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EDUCATION

Northwestern University, Evanston, IL.

Robert R. McCormick Scholl of Engineering and Applied Science

June 2023 (Anticipated)

Bachelor of Science in Computer Science

Minor: Computer Engineering

Kanga High School, Migori, Kenya.

2012 – 2016

Top 144 Nationally in the Final Examinations

SKILLS

Computing – Coding in Python, Java, C++, C, HTML, CSS, JavaScript, MATLAB, Racket.

RELEVANT CLASSES

Fundamentals of Computer Science 1 and 2 (fall, and winter quarter)

Data Structures and Algorithms (spring quarter)

Artificial Intelligence Programming (spring quarter)

EXPERIENCE

CS+X (Social Media + Mental Health) Research

Northwestern University McCormick School of Engineering

Research Assistant

October 22nd – To date

- Selected from a pool of over 30 applicants as a research assistant to prof. Stevie N Chancellor with responsibilities ranging in Quantitative analytics to data wrangling and training on how to design of machine learning algorithms that match the research interests.

IBM Research Africa, Catholic University, Nairobi, Kenya.

May – August 2019

Software Development Intern

- Accomplished a **69% reduction** in time spent on backend data analysis by using SQLAlchemy's ORM to prefilter data and maintain a real time display with matplotlib.
- Achieved a **21% increase** on data credibility in data mining using pandas for data cleansing **increasing** the overall projected research yield by 3%.

WASILI, Nakuru, Kenya.

January- March 2019

Software Development Intern at the Startup, Wasili

- Developed automated metrics reporting system in HTML, CSS and JavaScript (Vue.js) to deliver customer feedback; collected and analyzed responses from approximately 800 users
- Introduced animations in between making **HTTP** requests to make the app feel faster and give the user a better experience.
- Used Java to update the format of the images requested to **.jpg** with a lower resolution but a less data consumption and loading time.

ACTIVITIES

TECH CAMP KENYA, Nairobi, Kenya

January – November 2018

Student - Full Stack Software Development

- Introduced to Web Development using Flask, a Python Framework. Worked on 'Shop Guru Employee Management System', a web application to help a startup's directors monitor, post and, implement changes in employee payrolls and status.
- Used flask to Consume Mpesa API's, to automate payment method and update of the financial standings of the company in real time while updating all administrators.