

INNOCENT CHARLES

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EDUCATION

THE UNIVERSITY OF DODOMA

BSC IN SOFTWARE ENGINEERING

July 2023 | Dodoma, Tz

College of Informatics and Virtual Education.

WORLDQUANT UNIVERSITY

APPLIED DATA SCIENCE LAB

January 2023 | New Orleans, Louisiana

LINKS

Github:// innocent-charles

LinkedIn:// Innocent Charles

COURSEWORK

UNDERGRADUATE

Software Engineering and Deployment
Distributed Databases and cloud computing

Artificial Intelligence and Machine Learning

Data Science and Data Mining

Software and Web development

Data structure and Algorithm

Systems security Development

Mathematical Logic and Formal

Semantics

Big Data Analysis

Professional Ethics and Conduct Core

Systems Analysis and Design

SKILLS

PROGRAMMING

Over 100,000 lines:

Python • Javascript • Php • Java • Scala

• SQL etc..

FRAMEWORKS/TECHNOLOGIES

Redis • PostgreSQL • MongoDB • Cassandra • NextJs • Django/DRF • Laravel • Tailwind • FastAPI • Flask • Tensorflow • Pytorch • Spacy • SparkNLP • NestJs • Haystack • Spring boot • Docker • Kubernetes • Transformers • AWS • Hugging Face • Github • Jenkins • Flutter • Scrum • Fastai • OpenCV • SQL etc..

LANGUAGE

Fluent:

• Kiswahili

• English

EXPERIENCE

IPF SOFTWARES | SOFTWARE ENGINEER

July 2023 – Present | Dar-es-salaam, TZ

- Implemented backend rest apis and data scraping for rider and customer mobile app in Jetcargo.
- Implemented AI-powered notifications system for increased customer engagement.
- Deployed executive analytical dashboards in Biasharaplus product using superset, AWS Redshift.
- Implemented backend-apis in JemaAuto product that helps customer order used cars from Japan.
- Developed and deployed AI resume parser feature, saved over 3 hrs of manual resume filling by users.
- Delivered recommendation engine for Bishara Plus platform, boosting revenues by 1000 USD.
- Implemented various backend rest apis in rider and customer mobile app, CMS for JetCargo product.

REDEFINE AFRICA | DATA SCIENTIST

October 2022 | Dar-es-salaam, TZ

- Develop and deployed dormancy reduction system based on AI for CRDB client, successfully reactivated over 500000 dormant users.
- Created and deployed a real-time media usage dashboard with Power BI for Tanzania.
- Co-developed in-house voice data collector from the research project.
- Designed data collection questionnaires, scraped analyzed data with SPSS and Python for client's decision making.

NEUROTECH AFRICA LIMITED | ML/AI SOFTWARE ENGINEER AND NLP DEV ADVOCATE

November 2021 | Dar-es-salaam, TZ

- Co-shipped Sarufi SDK library - API for chatbot implementation and integration platform for business in Africa.
- Organized Swahili QA datasets, developed and shipped an Open-domain QA platform for the Swahili language.
- Wrote technical blogs about advanced NLP use cases. Wrote documentations, maintains open-source projects of the organization

OMDENA INC | MACHINE LEARNING ENGINEER

Jan 2020 – October 2021 | Dar-es-salaam, TZ

- Developed an AI-based system to detect and show the root cause of anomalies in Datacenter for Sensai.
- Developed an AI-based system that facilitates access to financial services for underserved populations in Africa for TojuAfrica.

ZINDI AFRICA | COMPETITIVE DATA SCIENTIST

Feb 2019 - | South Africa, SA

- Achieved the top rank in Tanzania and recognized as the Country winner on Umoja Hack Africa 2022.
- Ranked 1 on Sentiment Analysis Challenge.
- Ranked 4 on Monthly Insurance Claim Prediction Challenge.
- Ranked 2 on AI Trailblazers Qualification Challenge
- Ranked 5 on Measure of wealth Challenge in Africa.
- Ranked 3 on Tanzania Mobile Banking Prediction Challenge.
- Ranked 1 on IndabaX Ghana AutoInland claim.
- Ranked 8 on CGIAR Computer Vision for Crop Disease.

SIDE PROJECTS

- CV Analysis and Filtering System - Final Year Project (ReactJS, Python, and MySQL).
- InnoGPT: A chatbot to answer questions about me (Open source LLMs, NextJS, and MYSQL)
- TagAI: A system for crafting impressive business taglines(NextJS, Laravel, LLMs and FastAPI and Python)
- COVID 19-DETECTOR TOOL : A system to detect covid-19 from chest images (Flask, Javascript, SQLite)
- CIVE COURSE WORK PROCESSING SYSTEM (Java, MySQL)
- CIVE Food ordering system(Java, XML, MySQL, SQLite) (Java, MySQL)
- CUSTOM SWAHILI NER SYSTEM(Django) (Java, MySQL)

REFeree

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