Ethani Caphace

Experienced Back-end Software Engineer/Programmer
and Data Engineer.

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Relevant Experience

Application Programmer, Dec 2021 – Present

e-Government Authority,

– Deliver high-quality, maintainable, and robust production-ready software applications for a number of client's projects
– Work (as Technical- Lead as well team-member) alongside Business analysts, designers, and other engineer to transform creative concepts into production realities for clients and stakeholders,
– Designed and implemented scalable microservices architectures for different systems, and migration from a monolithic legacy system to microservice's systems, setting up CI/CD, deployment to K8 infra. and monitoring.
– Monitoring, debugging, and performance tuning including API (REST and GraphQL), and Database Query Optimization.
– Mentoring a number of junior developers through regular code reviews, pair programming, and technical sessions.
– Seamless Integration of third-party services including payment gateways, external identity providers, and ERP systems via GraphQL, RESTful and SOAP APIs, automating business processes and enabling real-time data synchronization across platforms.

Skills: Java · Spring Boot · Microservices · Docker · Kubernetes · Git · Continuous Integration and Continuous Delivery (CI/CD) · Django · PHP · Laravel · API (REST and GraphQL) · Web Application Design, Development, Deployment, and Monitoring · Amazon Web Services (AWS) · Extract, Transform, Load (ETL) · PostgreSQL · MySQL · RabbitMQ · Apache Airflow · Apache Kafka · Python

Junior Machine Learning and Data Engineer, Oct 2021 – Dec 2021

Omdena – Freelance

– Collaborator on ML/AI project which aims to Improve Driver Voice Assistance Using Machine Learning to Help Reduce Road Accidents, where i joined as Junior ML Engineer. https://omdena.com/projects/voice-assistance/

Skills: Scikit-Learn · TensorFlow · Machine Learning · Flask · Apache Airflow · Apache Kafka · Web Application Development · Python (Programming Language) · PyTorch · Keras · Exploratory Data Analysis · Amazon Web Services (AWS) · Extract, Transform, Load (ETL) · Django · Apache Spark

IoT and Software Developer (Internship), Oct 2020 – Nov 2021

e-Government Authority Research, Innovation, and Development Center,

– Full-stack Web application development using Django and Laravel frameworks,
– Researching and developing an ML solution for Interactive Voice Recognition, and Optical character recognition (OCR) projects using Deep Learning Neural Networks, and
– Designing and Implementation of different Embedded and IoT systems.

Skills: IoT · Embedded Systems · Sensory networks · Networking · Web Application Development · Python (Programming Language) ·Django Framework ·PHP, and Laravel Framework

Education

[Dar Es Salaam Institute of Technology (DIT)](), Tanzania

– Bachelor of Engineering in Electronics and Telecommunication (BENG-ETE)
  Oct 2016 – Sept 2020

– Graduated with a **4.2** GPA out of **5.**
– Embedded, and IoT Systems, Networking, RF Broadcasting, and Transmission,
  Telephone systems, Cellular and Mobile Communications, etc

[10 Academy](), July 2021 – Oct 2021

– Machine Learning and Data Engineering Trainee

3 Months intensive hands-on training, and experience in solving real-world/industrial problems using
Data Engineering, and ML Engineering solutions/approaches, involving;

– Setting up project's codebase, version control (git, DVC, and MLflow),
– Performing Data Exploration Analysis, Feature Extraction, and Pre-processing, etc.
– Building data pipelines for ETL using Kafka, Spark, and scheduling tasks using Airflow.
– Developing, Testing, and Maintaining ML Models using different Algorithms,
– Perform CI/CD using Travis CI, and Compare models using MLflow,
– Dockerization, and Dashboard presentation and Visualization, and deployment on different platforms,
  including Heroku, Streamlit, AWS, etc.
– Some of the projects can be found here, https://sites.google.com/view/ethani/home

Skills: Scikit-Learn · TensorFlow · Machine Learning · Flask · Apache Airflow · Apache Kafka · Web Application
Development · Python (Programming Language) · PyTorch · Keras · Exploratory Data Analysis · Amazon Web
Services (AWS) · Extract, Transform, Load (ETL) · Django · Apache Spark

Technical Skills

1.0 Programming Language:

Java, Python, PHP, JavaScript, TypeScript, HTML

2.0 Frameworks:

Spring, and Spring Boot, Django, Flask, Laravel, React, NextJS, Tailwind CSS

3.0 Tools, Platforms, and Technologies:

Git · CI/CD · Microservices · Docker · Kubernetes · API (REST and GraphQL) · Web Application Design,
Development, Deployment, and Monitoring · Amazon Web Services (AWS) · Extract, Transform, Load (ETL) ·
PostgreSQL · MySQL · RabbitMQ · Apache Airflow · Apache Kafka · Exploratory Data Analysis (EDA) ·
OAuth2.0 · Apache Airflow · Apache Kafka · Apache Spark · TensorFlow

Referee

Eng. Dr. Jaha Mvulla

Manager – Research, Innovation, and Training. ([e-Government Authority]())

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