

Hambira Tudu

Software Development Engineer

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PROFILE SUMMARY

- Experienced Software Development Engineer with 9 years of expertise in developing RESTFUL web services, integrating user-facing elements, and designing serverside architecture.
- Individual Contributor and skilled in Python, MongoDB, PostgreSQL, Flask, FastAPI and Microservices, with a strong understanding of relational and NoSQL databases.
- Proven track record of automating data movements, deploying backend applications to cloud platforms like AWS, and completing projects in NLP, Computer Vision and Machine Learning.
- at collaborating with internal teams to understand user requirements and deliver technical solutions.
- Known for strong debugging skills and a deep understanding of software engineering principles, offering a valuable combination of technical proficiency and strategic problem-solving abilities.
- Skilled in applying Object-Oriented Programming (OOP) principles to design modular, maintainable, and scalable backend applications using Python.

PROFESSIONAL EXPERIENCE

Python Developer, Teksystem (Walmart Global Tech)

Oct 2024 - July 2025

Roles & Responsibilities:

- Developed and maintained a complex Computer Vision-based system (Exit Tech) leveraging Python for image processing tasks across 15+ microservices in a containerized environment using Docker and Kubernetes.
- Implemented event-driven architecture using RabbitMQ for asynchronous processing of events and Redis for high-speed data caching and optimization of image pipeline tasks.
- Built robust CI/CD pipelines, contributing to post-deployment Behave tests, unit tests, and end-to-end integration testing using Pytest to ensure seamless, reliable production deployments.
- Actively participated in functional and regression testing, improving test coverage and reducing production issues.
- Collaborated with cross-functional teams to manage and optimize scalable image processing workflows, ensuring efficient memory and compute resource utilization.
- Contributed to architectural decisions and infrastructure optimization efforts, improving pipeline performance and maintainability in a cloud-native microservices ecosystem.

Software Development Engineer, AVR Edge Networks

Oct 2020 - July 2024

Roles & Responsibilities:

- Developed RESTFUL web services using Flask in python.
- Good Understanding of ORM (Object Relational Mapper) libraries like SQLAlchemy and Data Migrations
- Integration of user-facing elements developed by front-end developers with server-side logic
- Knowledge of user authentication and authorization between multiple systems, servers, and environments
- Experience with relational databases (MySQL and PostgreSQL) and NoSQL databases (MongoDB).
- Design client-side and server-side architecture
- Develop back-end components to improve responsiveness and overall performance
- Coordinate with internal teams to understand user requirements and technical solutions
- Strong debugging skills and understanding of Microservices.
- Knowledge of platform services like databases, messaging queues, and caching
- Prior experience as an individual contributor
- Led a team of developers for one year, successfully managing project timelines
- Understanding of SaaS architecture patterns and best practices
- Experience in designing and implementing multi-tenant SaaS applications
- Familiar with CI/CD pipelines and tools like Jenkins and Gitlab CI to deploy.

EDUCATION

Bachelor of Technology

NIILM University

2012 - 2016

SKILLS

PROGRAMMING & FRAMEWORKS

- PYTHON
- FLASK
- FASTAPI
- DJANGO
- STREAMLIT
- PYSPARK

BACKEND DEVELOPMENT & ARCHITECTURE

- MICROSERVICES ARCHITECTURE
- RESTFUL APIs
- API INTEGRATIONS
- DATA INTEGRATIONS
- DATA MIGRATIONS
- DESIGN PATTERNS
- SYSTEM DESIGN

DEVELOPMENT METHODOLOGIES

- AGILE (SCRUM, SPRINT PLANNING, RETROSPECTIVE, GROOMING, DAILY STANDUPS)

DATABASES & SERVICES

- POSTGRESQL
- MONGODB
- REDIS
- COSMOSDB
- ELASTICSEARCH
- REDIS
- RABBITMQ

CLOUD & DEVOPS

- AWS
- AZURE
- DOCKER
- KUBERNETES
- JENKINS
- PLATFORM AS A SERVICE (PAAS)
- SOFTWARE AS A SERVICE (SAAS)

AI & MACHINE LEARNING

- COMPUTER VISION
- NLP
- NUMPY, PANDAS (PREPROCESSING)
- OPENCV
- KERAS, PYTORCH
- TESSERACT OCR
- PROMPT ENGINEERING

Data Engineer, Ebisu Technologies**July 2017 - Sept 2020*****Roles & Responsibilities:***

- experience as an individual contributor, demonstrating strong technical and problem-solving abilities
- Played a pivotal role in building a software product from inception to launch, overseeing all aspects of development and ensuring product quality
- Completed projects such as NER, Sentimental analysis, Spam detection, Language detection, Spell checking, Word2vec, and Intent Classification using Python and NLP.
- Develop image processing applications such as facial recognition, object detection and object recognition.
- Experience with frameworks like pandas, matplotlib, nltk, numpy, tensorflow, pytorch, and other machine learning frameworks.
- Developed and maintained batch and streaming data pipelines using PySpark and Kafka to process and transform high-volume datasets; delivered business insights via custom Streamlit dashboards
- Scraping data using selenium, beautifulSoup, scrapy, etc.
- used GIT version control and deployed projects to AWS and digital ocean servers.
- Automated data movements with python scripts.
- Successfully executed data scraping projects
- Worked with AWS services like AWS Lambda, S3 bucket, EC2 instance, ALB.
- Experienced in deploying applications to bare metal servers like EC2 and VMs.

Software Engineer, Capgemini**June 2016 - June 2017*****Roles and Responsibilities:***

- Designed and optimized database schemas to support scalable and efficient data storage solutions.
- Developed and maintained backend applications using Python, ensuring modular and maintainable codebases.
- Created unit tests and implemented test-driven development practices to ensure code reliability and robustness.
- Integrated RESTful APIs and implemented automation scripts to streamline workflows and reduce manual interventions.