

AYOMIDE ALLI

Lagos, Nigeria

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GitHub: github.com/AAE004

PyPI: pypi.org/project/charonfig

PERSONAL PROFILE

Innovative Mechanical Engineering graduate with strong hands-on experience in industrial maintenance and advanced software engineering. Proven ability to maintain FMCG manufacturing systems and develop production-grade software tools. Adept at applying Python, computer vision, and machine learning to solve engineering and operational challenges.

EDUCATION

Bachelor of Engineering (B.Eng) – Mechanical Engineering
Olabisi Onabanjo University (OOU), Ago-Iwoye
Second Class Lower (Honours)
2020 – 2025

NYSC Status: Awaiting Mobilisation (2026)

RELEVANT COURSEWORK

Engineering Mathematics, Thermodynamics, Fluid Mechanics, Computer-Aided Design

WORK EXPERIENCE

Technical Officer
One Hom Limited, Lagos
January 2025 – Present

Mechanical Engineering Intern (SIWES)
Stellar Beverages (FMCG Factory), Ogba, Ikeja
May 2023 – November 2023

- Supported preventive maintenance of high-speed FMCG production lines, contributing to consistent daily output.

Participated in fault diagnosis and repair of conveyors, centrifugal pumps, and pneumatic systems during planned shutdowns.

Applied lockout/tagout and HSE procedures in line with industrial safety best practices.

Participated in machine overhauls

TECHNICAL PROJECTS

Charonfig – Python Configuration Management Library

- Published on PyPI as a schema-first configuration library.
- Implemented Fernet (AES-128) encryption for secure credential handling.
- Developed a CLI tool for automated documentation generation.
- Utilized metaclasses and type hints for runtime validation.

Weld Defect Detection Model (Final Year Project)

- Developed a CNN using ResNet-50 for weld defect classification.
- Achieved 85% classification accuracy on radiographic weld images.
- Applied LIME and Grad-CAM for explainable AI visualization.
- Correlated NDT results with mechanical properties using AWS D1.1 and ISO 5817 standards.

LEADERSHIP & VOLUNTEERING

Active Member – Google Developer Student Clubs (GDSC), OOU

- Participated in workshops on cloud computing and artificial intelligence.

Trainee – Data Science Nigeria (DSN)

- Collaborated on real-world machine learning problem-solving projects.

CORE SKILLS

Software Engineering: Python, Library Design, CLI Tools, Encryption, Git/GitHub

Data & AI: Machine Learning, Computer Vision, TensorFlow, Pandas

Engineering Operations: Manufacturing Systems, NDT Inspection, AutoCAD, HSE Standards

Soft Skills: Technical Documentation, Teamwork, Problem Solving

REFERENCES

Available on Request