Jude Etuka
Middle Software Research Engineer

SUMMARY

Software engineer with a strong focus on AI integration and full-stack web solutions. A proven track record in building AI-powered tools and automating core processes, coupled with expertise in cross-platform development and containerization. Extensive experience with Python, Docker/Nginx, and deploying reliable APIs. Actively pursuing a Bachelor's in Computer Science and excelling in hands-on roles such as Software Research Engineer. Achievements include reducing log review time by 70% and improving customer agents' response rate from 45% to 85%. Adept in languages like C/C++, JavaScript/TypeScript, and possesses advanced skills in frameworks like Django and ReactJS.

TECHNICAL SKILLS

Main Technical Skills	Python (5 yr.), TypeScript (5 yr.), C/C++/C#, Robot Framework, Dart
Programming Languages	Dart, Java, Python (5 yr.), TypeScript (5 yr.)
.NET Platform	Azure
C++ Libraries and Tools	C/C++/C#
AI & Machine Learning	Hugging Face, LangChain, ollama, OpenCV
Python Libraries and Tools	Robot Framework
Java Frameworks	Spring Boot
Java Libraries and Tools	Spring model-view-controller (MVC) framework
Databases & Management Systems / ORM	MongoDB, MySQL, PostgreSQL, Redis
UI Frameworks, Libraries, and Browsers	Tailwind CSS
Cloud Platforms, Services & Computing	AWS, Azure, DigitalOcean
SDK / API and Integrations	API, Facebook Auth, Telegram API

Message/Queue/Task Brokers	Celery
Version Control	Github Actions
Deployment, CI/CD & Administration	GitLab CI
Operating Systems	Linux
QA, Test Automation, Security	Playwright
Methodologies, Paradigms and Patterns	REST
Scripting and Command Line Interfaces	Shell Scripts
Platforms	Telegram Mini Apps
Other Technical Skills	Kivy, LlamaFile, Neovim, Pushpin, Telegram ChatBot

WORK EXPERIENCE

Software Research Engineer, AI-Powered Anomaly Detector & Summarizer

Duration: 2023 – Present

Summary: Architected and implemented an anomaly detection pipeline that processes system logs, identifies anomalies, and produces human-readable summaries.

Responsibilities: AI Research & Integration, DevOps & Containerization, Rapid Prototyping, Cross-Functional Collaboration

Technologies: Python, Docker, Nginx, transformer models

Software Research Engineer, Telegram Bot for Customer Agents

Duration: 2023 – Present

Summary: Built and deployed a live support tool connecting web and Telegram platforms, allowing customer agents to respond in real-time.

Responsibilities: Full-Stack API & Service Development, DevOps & Containerization

Technologies: Python (python-telegram-bot, Flask), ReactJS, Docker

Software Research Engineer, AI-Powered Study Assistant

Duration: 2023 – Present

Summary: Developed a browser-agnostic AI-powered study assistant offering topic summarization, quiz generation, and overlays on any website.

Responsibilities: AI Research & Integration, Full-Stack API & Service Development, Rapid Prototyping

Technologies: Python (FastAPI), LangChain, Ollama, HTML, JavaScript

Software Research Engineer, Resume Screening Bot

Duration: 2023 – Present

Summary: Conceived, coded, and deployed an AI-driven resume screener reducing screening time per candidate and processing over 1,500 resumes in a pilot phase.

Responsibilities: AI Research & Integration, Full-Stack API & Service Development, Technical Mentorship

Technologies: Python (Django REST Framework), Hugging Face transformers, Celery, Redis

Independent Developer, Latens (Encryption Library)

Duration: Jan 2024 – Feb 2024

Summary: Designed and implemented a lightweight encryption library, Latens, enabling secure data transmission and preventing unauthorized data tampering.

Responsibilities: Cross-Functional Collaboration, Rapid Prototyping, DevOps & Containerization

Technologies: C, Python, Java, Cython, JNI

Independent Developer, Embedded Vision & Security Suite on Raspberry Pi

Duration: Mar 2024 – Present

Summary: Currently developing a modular embedded security system using Raspberry Pi for real-time video analysis and encryption.

Responsibilities: AI Research & Integration, Full-Stack API & Service Development, Rapid Prototyping

Technologies: C++, Python, OpenCV, TensorFlow Lite, Flask

EDUCATION

- **National Open University of Nigeria**
- Pursuing Bachelor of Science (Computer Science)