# 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

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| **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.) |
| **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 |

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| **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)