

# Doane Wellingtone

## Software Engineer

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 Nairobi, Kenya

### PROFILE

Highly analytical and systems-oriented Software Engineer with strong competencies in cybersecurity, digital forensics, data science, and full-stack system architecture. Experienced in designing modular, scalable solutions including voting systems, financial analytics dashboards, ambient intelligence traffic optimization models, and enterprise reporting frameworks.

Demonstrates a structured approach to problem-solving, integrating secure coding practices, data-driven decision-making, and automation into practical software solutions. Proficient in Python-based development, dashboard engineering, backend logic design, and applied machine learning concepts.

Strong interest in cybersecurity research, encryption analysis, forensic pattern discovery, and secure system design. Adept at translating complex technical requirements into structured, production-grade system architectures with clear documentation and professional standards.

Committed to continuous technical advancement through project-based learning and practical implementation of advanced computing concepts

### SKILLS

- **Software Engineering & System Architecture** – Modular system design, scalable application structuring, backend logic development, and enterprise reporting frameworks.
- **Programming & Development** – Strong Python development (including Flask dashboards), C# proficiency, object-oriented programming, and algorithmic problem-solving.
- **Cybersecurity & Digital Forensics** – Encryption/decryption concepts, secure system design, forensic text analysis, and security-oriented architectural thinking.
- **Data Science & Analytics** – Machine learning problem framing, classification vs clustering understanding, financial data modeling, and analytical dashboard development.
- **Intelligent & Applied Systems Design** – Ambient intelligence solutions, smart traffic modeling concepts, and IoT-aware system integration thinking.
- **Quantitative & Financial Systems Modeling** – Price action modeling, volatility expectation analysis, and translating quantitative logic into deployable applications.
- **Technical Documentation & Professional Structuring** – Test planning, structured documentation, and professional-grade system specification writing

### COURSES

#### Software Engineering

KCA University

09/2022 – 12/2026 | Nairobi, Kenya

## INTERESTS

- **Cybersecurity & Digital Forensics** – Secure system architecture, cryptographic analysis, threat modeling, and forensic pattern investigation.
- **Secure Software Engineering** – Designing scalable, modular, and security-hardened enterprise systems with strong governance and reporting capabilities.
- **Data Science & Predictive Analytics** – Machine learning applications for classification, anomaly detection, and data-driven decision support systems.
- **Quantitative & Financial Systems Development** – Algorithmic modeling, volatility analysis, and development of analytics-driven trading dashboards.
- **Intelligent Systems & Smart Infrastructure** – Ambient intelligence, IoT-enabled optimization, and AI-assisted public-sector and enterprise solutions.
- **Research & Continuous Technical Advancement** – Certification-driven skill development, advanced computing methodologies, and practical implementation of emerging technologies.