Mandengue NJIME

Industrial Digital Transformation
& Cybersecurity Engineer

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Profile

Industrial Digital Transformation and Cybersecurity Engineer with 4 years of experience across IT/OT infrastructure, IIoT architectures, industrial data platforms and cybersecurity. Experienced in industrial system interoperability, data pipelines, infrastructure security and event-driven architectures. Particularly interested in industrial AI, cloud technologies and the convergence of Operational and Information Technology.

Professional Experience

Industry 4.0 & Cybersecurity Engineer – We Network 09/2023 – 06/2026 · Angers, France

- Designed IT/OT architectures and experimented with a MQTT-based Unified Namespace (UNS) to structure data exchanges between industrial systems, IoT devices and robotic demonstrators.
- Developed industrial data pipelines using Telegraf and InfluxDB to collect, historize and visualize equipment data for real-time monitoring and anomaly analysis.
- Applied the principles of defense in depth to IT/OT infrastructures, strengthened containerized environments and contributed to audits, risk assessments and incident responses, in reference to ISO 27001, NIS2 and IEC 62443.

Full-Stack Developer & Application Security Analyst – ITGStore SAS 06/2024 – 09/2024 · Douala, Cameroon

- Integrated a biometric scanner into a web interface, covering data capture, processing and secure transmission.
- Designed a centralized enrollment architecture with dedicated operator applications for government agencies and an administrator interface for centralized monitoring and management.
- Conducted application security assessments against the OWASP Top 10, identifying vulnerabilities and providing remediation recommendations.

IT Infrastructure & Security Analyst – Speedy France 09/2022 – 09/2023 · Paris, France

- Investigated technical and organizational issues, identified root causes and proposed prioritized corrective actions.
- Contributed to infrastructure and security projects involving servers, VPNs, system hardening and operational process automation.
- Configured and maintained workstations, servers and IT infrastructure services to ensure availability and operational reliability.

Selected Projects

Industrial IIoT Ecosystem & Connectivity – LowPlant 2026

- Designed an industrial connectivity architecture integrating PLC controllers, Kepware (OPC UA), MQTT brokers, Unified Namespace and ThingWorx for machine data collection, real-time monitoring and OEE performance tracking.

Unified Namespace industriel – We Network 2023 – 2026

- Structured an industrial data model based on MQTT and a YAML governance repository managed through Git, facilitating the organization of IoT data flows and their consumption by business applications.

Education

Engineering Degree in Cybersecurity & IoE · ESAIP · 2023 – 2026
Engineering degree specializing in cybersecurity, connected systems and risk management. · Alternance · 17,45/20
Bachelor of Science in Computer Science · Efrei Paris · 2021 – 2023
Focus on computer systems, networks and IT infrastructure. · 18,5/20

Certifications

CEH – Certified Ethical Hacker · EC-Council · 2026 · Obtained
ISA/IEC 62443 Cybersecurity Fundamentals Specialist · ISA · In Progress
ISA-95 / IEC 62264 Enterprise-Control System Integration · ISA · In Progress

Technical Skills

Industrial Systems & OT/IoT: Unified Namespace, MQTT, OPC UA, ISA-95, Kepware, ThingWorx, Ignition, MES/ERP.
Industrial Data & AI: Telegraf, InfluxDB, Node-RED, Grafana, RAG, vLLM, LangGraph.
Infrastructure, DevOps & Cloud: Linux, Docker, Kubernetes, Terraform, Ansible, GitLab CI, AWS, Azure.
Cybersecurity & Risk Management: IT/OT Security, IEC 62443, ISO 27001, NIS2, OWASP.
Software Development: Python, C++, TypeScript, React, Next.js, Node.js, SQL.

Languages

French Native · **English** C1 · TOEIC 945