

# PROFESSIONAL EXPERIENCES

2024 - 2026 | BNP PARIBAS

## Data Security & Governance

- Automation & Inventory: Developed **scripts for Guardium Discovery scan automation** and inventory report generation.
- Security Maintenance (MCS): Applied critical patches and performed major RHEL Kernel updates via **Ansible**.
- Access Management: Migrated GUI authentication to **WebSSO**.
- Secret Detection: Designed Python tools for the automated identification of **exposed secrets on Confluence**.
- AI: Collaborated on the **integration of a proprietary AI** model to validate detected secrets and minimize false positives.
- Governance & DLP: Risk management via **Varonis** and creation of **PowerBI dashboards** for CISO reporting.
- Compliance: Analyzed data classification rates and verified the **principle of least privilege** on network shares.

May - Aug 2024 | Shush Technologies

## DevOps Intern - South Korea

- Web Crawling: design and deployment of JavaScript scrapers via **Puppeteer**, integrated with **RabbitMQ** for large-scale data collection.
- Parsing & Data: optimization of Java parsers (**Jsoup**) and development of new JavaScript parsers using the **Molecular** framework, connected via RabbitMQ pipeline.
- Chromium Extension: development of a JavaScript-based **Chrome extension** improving application interactivity (**AJAX**).
- OCR & AI: design of a Python **OCR** system (Tesseract, PyMuPDF, PIL), integrated with **Django** and deployed on AWS S3 + DynamoDB.
- Cloud & Infrastructure: set up **DynamoDB, AWS S3** and a Dockerized solution with **MinIO** for cloud-based file management.

2023 - 2024 | BNP PARIBAS

## Digital Fraud & Phishing Analyst

- Detection & Investigation: **Typosquatting** monitoring and neutralization of fraudulent domains.
- Honeypots**: Design and management of HoneyPots.
- Log Analysis: Developed a script to retrieve and analyze logs from fraudulent websites.
- Threat Intelligence: Technical research on emerging threats (**IPFS** protocols, **JARM/JA3S TLS** fingerprinting) and SIM Swap scenarios.
- Risk Management: Monitoring and documentation of **Telegram-based fraud**.

2023 | PLASMABIOTICS

## R&D Engineering Intern

- Testing & Optimization: Developed system and software test procedures, analyzed results, and implemented technical fixes.
- Compliance & Standards: **Drafted test plans** and **compliance documentation** for regulatory standards.
- Project Management: Led the development of a new machine and manufactured specialized connectors.

# YOUCEF YAICH



Cybersecurity Engineer graduated from **ECE Paris** with two years of experience at **BNP Paribas**. My background includes securing sensitive data and combating digital fraud. I am also actively integrating emerging security challenges related to **LLMs** (Large Language Models) into my technical projects. Innovation-driven, I am now looking to leverage my expertise within challenging and forward-thinking cybersecurity initiatives.



## HOBBIES

- Table tennis (6y)
- volleyball (1y)
- Video games
- weightlifting (2y)
- reading
- music - Guitar

## STUDIES

### High School Diploma (Baccalauréat STI2D) – Information and Digital Systems (SIN)

- Systems and Networks (IP, HTTPS, DNS, TCP/IP, OSI, TLS, WAN, LAN).
- Automatic electric kart (Arduino).
- Isis modeling.

### ECE - PARIS

- Cybersecurity Specialization:**
  - SOC** Analysis, **Forensics**, Reverse Engineering, and Information Systems Security (Linux, Windows, Unix).
  - Risk Management, Governance (**IAM, Cyber Policies**), and Database Security.
  - Cryptography, DevOps, and Network Administration.
  - Root-me & TryHackme** challenges.
- LLM & Generative AI Security:**
  - Threat Analysis (**OWASP LLM Top-10, MITRE ATLAS**) and techniques including **Prompt Injection and Jailbreaking**.
  - Implementation of **Guardrails** and securing RAG (Retrieval-Augmented Generation) architectures.
  - AI-assisted code auditing and alert triage using **promptfoo and Semgrep**.
- Engineering Core & Projects:**
  - Mathematics, Electronics, Electromagnetism, and **Graph Theory**.
  - Development: C/C++, Python, C#, and SQL.
  - Embedded Systems: Robotics delivery projects, digital synthesizer, and heart rate monitor (Arduino).

## CONTACT

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## PERSONAL EXPERIENCES

### Automated trading algorithms

- Design of autonomous algorithms executing strategies across 3 **simultaneous markets** (stocks, forex, crypto) with backtesting and **risk management**. Achievement of zero manual intervention.

### Autonomous AI Agent Enterprise – Self-Healing Development System

- Multi-agent** orchestration via Ralph/BMAD: CEO, Architect, Dev, QA, Debugger; from voice brief to production-ready code without human intervention.
- Autonomous planning** via **BMAD** method: PRD generation, architecture, and user stories fragmented into atomic sprints.
- Self-correcting** test pipeline with **autonomous debugging loop** (Playwright E2E, Vitest, pixel-by-pixel visual regression).
- Local voice transcription** via faster-whisper large-v3.
- Hybrid quota management: automatic Max / API overflow switching based on load.
- Real-time supervision and control via **Telegram bot** (text + voice commands).

### BTC Portfolio Tracker

- Real-time** Bitcoin portfolio tracking application: P&L visualization, transaction history, and price chart analysis.

### LexIA – AI Legal Assistant • Mistral Hackathon

- Designed an AI assistant specialized in French law during the **Mistral AI Hackathon**.
- Fine-tuned Ministral-8B** on a French legal corpus (codes, case law) using **QLoRA + Unsloth**.
- Generated instruction/response datasets and built a complete training pipeline.
- Interface allowing users to query legal information in natural language.
- Continuously improving** model with progressive dataset enrichment and response refinement.

### IoT System – Automated Aquarium

- Embedded architecture managing 3 critical real-time parameters (temperature, water level, feeding) via sensors with **mobile app alerting**.

### File Encryption Tool (Python)

- Development of custom-key encryption/decryption software; fully functional **symmetric encryption** delivered from end-to-end.

## LANGUAGES

French *Native*

English (C1)

Español (A2)

## SKILLS

C / C++ / C# React SQL

Java Javascript NodeJS

Python Shell Arduino

Varonis Guardium PowerBI

Windows MacOS Linux

Git Visual Studio docker

Microsoft 365 VMware