

Mohamed Bakir

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Relevant Links: [LinkedIn](#) — [GitHub](#)

Programming Languages: Java, Python, C/C++, JavaScript, SQL, noSQL, HTML/CSS

Frameworks: Spring Boot, React, Flask, FastAPI, JUnit, JavaFX, scikit-learn

Tools: Git, Docker, Kubernetes, Grafana, PyCharm

Technologies: PostgreSQL, MongoDB, SQLite, ELK Stack, Suricata, Redis, TensorFlow, Azure Cloud

EDUCATION

ECE Paris

Master's in Computer Systems, concentration in Cybersecurity and Artificial Intelligence

September 2020 – June 2025

Sejong University

Academic Exchange, concentration in Artificial Intelligence

September 2024 – December 2024

University of Malaya

Academic Exchange, concentration in Data Analysis and Algorithms

February 2023 – August 2023

WORK EXPERIENCE

CERIST

May 2024 – August 2024

SOC Analyst Intern

Algiers, Algeria

- Designed and implemented a SIEM solution using the ELK stack, integrating machine learning models for real-time anomaly detection with an 80% accuracy
- Developed AI-driven correlation rules to identify suspicious patterns and automate threat responses
- Conducted in-depth security assessments, uncovering vulnerabilities and proposing robust remediation strategies
- Enhanced the organization's incident response capabilities by integrating advanced alerting mechanisms and dashboards

CDTA

January 2023 – February 2023

Network Assistant Intern

Algiers, Algeria

- Assisted in configuring and maintaining local networks, ensuring consistent performance and uptime
- Participated in the deployment of new network hardware, aligning with organizational technical standards
- Diagnosed and resolved connectivity issues, improving network reliability
- Collaborated with the IT team to document network architecture and processes for future scalability

Reisel

January 2022 – February 2022

HR Assistant Intern

Paris, France

- Provided administrative support to HR teams, managing personnel files and ensuring compliance with internal policies

PROJECTS

Personal Budget Tracker | Java, MongoDB, Docker, JavaFX, HTML/CSS

November 2024

- Developed budgeting tool with real-time insights and dynamic visualizations using JavaFX.
- Utilized Spring Boot and MongoDB for backend services, deployed with Docker.

AI-based SIEM Solution | ELK, Suricata, FastAPI, Python

August 2024

- Built AI-powered SIEM for real-time anomaly detection and automated threat response.
- Designed REST API with FastAPI for log data management and integrated machine learning models.

Fatigue Detection System | Python, SVM, Random Forest

March 2024

- Developed AI model using EEG, ECG, and EDA data to detect fatigue with 71% accuracy.
- Implemented data preprocessing and feature engineering to improve model performance.

Containerized Web App | Docker, Kubernetes, Istio

December 2023

- Deployed a containerized web app using Kubernetes, with Istio for traffic management.
- Implemented Grafana for system monitoring and performance tracking.

E-commerce Website | Java, SQL, JavaFX, HTML/CSS

June 2023

- Created an e-commerce platform with user management and product tracking using JavaFX.
- Designed a relational database for transactions and inventory.

Game Development | C, C++

September 2020 - June 2022

- Developed games like **Scrabble** and **Cluedo** with C and C++ using graphical libraries.
- Designed multiplayer game **Saboteur** with dynamic roles and interaction.

CERTIFICATIONS — LANGUAGES

Certifications

- MOOC Project Management (October 2023): Risk Management, Agile and Scrum Methodologies.
- Python for Data Analysis (November 2023): Data analysis and visualization with Pandas and Matplotlib.
- TOEIC (November 2023): English certification with a grade of 910/990

Languages

- French: Bilingual, English: C1, Arabic: Bilingual.