



# Khalil Krifi

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in khalil-krifi    🌐 DaL1ght1    📁 Portfolio

## About me

I'm a **second-year Software Engineering student** at the **National School of Computer Science (ENSI)**, currently seeking a **summer internship**. I'm particularly interested in **DevOps**, **MLOps**, and **Artificial Intelligence**. While I'm still in the early stages of exploring these fields, I am **highly motivated** to develop my skills and **always eager to learn more**. I am committed to deepening my understanding through **hands-on experience** and **continuous learning**.

## Education

<b>National School of Computer Science (ENSI) - University of Manouba</b> , Computer Science Engineering Diploma	Sept 2023 – June 2026
<b>Preparatory Institute for Engineering Studies in Nabeul (IPEIN)</b> , Engineering Preparatory School Diploma	Sept 2021 – June 2023
<b>Ministry of Education of Tunisia Boumhal</b> , Baccalaureate	Sept 2020 – June 2021

## Experience

<b>BFI Group</b> , Software Engineer Intern	Tunis, Tunisia June 2024 – Aug 2024
<ul style="list-style-type: none"><li>Developed an Enterprise Content Management (ECM) web application, implementing features such as document management, content search and indexing with Elasticsearch, and role-based access control (RBAC) and authentication using JWT.</li><li>Utilized technologies: Spring Boot, Angular (TypeScript, HTML, SCSS), PostgreSQL, Elasticsearch.</li><li>Github Repository: <a href="#">ECM</a></li></ul>	

## Projects

<b>Falsified Image Detection for Judicial Procedures</b>	Feb 2024 - Present
<ul style="list-style-type: none"><li>Developed an AI-based solution using Transfer Learning, achieving high accuracy with MobileNetV3 for detecting falsified images, Albumentations for data augmentation and Optuna for hyperparameter tuning. Integrated Explainable AI techniques (SHAP, LIME and Grad-Cam) to interpret model decisions.</li><li>Integrated into a web app using Spring Boot, Angular, and Docker for deployment.</li><li>Technologies: Python, PyTorch, SHAP, LIME, Grad-Cam Spring Boot, Angular, PostgreSQL, Kafka, Docker, MongoDB. Github: <a href="#">Falsified Image Detection System</a></li></ul>	
<b>Vehicle Rental Application: Rouli</b>	Jan 2024 - Mar 2024
<ul style="list-style-type: none"><li>Built a web application for renting cars, motorcycles, and scooters, featuring user registration, vehicle browsing with filters, reservation system, and email notifications.</li><li>Technologies: HTML, CSS, JavaScript, PHP.</li><li>Github Repository: <a href="#">Rouli</a></li></ul>	
<b>Additional Projects</b>	Oct 2023 - Feb 2024
<ul style="list-style-type: none"><li>Developed a compiler for a custom language, implementing lexical analysis, parsing, and code generation using C. Github: <a href="#">CompilerProject</a></li><li>Created responsive front-end websites, including a personal portfolio and e-commerce prototype, using HTML, CSS, JavaScript, and React.</li></ul>	

## Technologies

**Programming Languages:** C, C++, Java, Python  
**Database Technologies:** MySQL, PL/SQL, MongoDB, PostgreSQL  
**Web Development:** JavaScript, TypeScript, HTML, CSS, React, PHP, Spring Boot, Angular  
**Tools:** Git, Docker, Kafka, Jupyter Notebooks, Zipkin