

# ELMEDJADJI Kamel

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## SUMMARY

Graduate in informatics specializing in software engineering with solid experience in computer vision and natural language processing. Proficient in Java and Java Swing, with extensive experience in web and desktop development, simulation, and IoT domains. Mastery of object-oriented programming (OOP), using design principles to create scalable and maintainable software solutions. Recognized for exceptional problem-solving abilities, research skills, and a collaborative approach to project execution.

## TECHNICAL SKILLS

**Programming Languages:** Java/Java Swing, JavaScript, C++, Python, Node.js, ATL, SQL.

**Web Development:** HTML, CSS, JavaScript, Node.js, MySQL.

**Desktop Development:** Java/Java Swing, MySQL, Netbeans IDE.

**Simulation:** iFogSim version 2, MATLAB.

**Software Development:** Object-Oriented Programming (OOP), Design Patterns, Agile Methodologies.

**Tools & Technologies:** MySQL Workbench, Visual Studio, Microsoft Office, LaTeX, Weka GUI, StarUML, Netbeans, Eclipse, OverLeaf, Git, GitHub.

**General Skills:** Teamwork, Problem Solving, Project Management, Communication, Adaptability.

**Languages:** Arabic, French, English.

## PROFESSIONAL EXPERIENCE

**Study of the impact of task placement level on the efficiency of an IoT system**

Dec 2023 – Aug 2024

*Final Year Project*

*Eclipse, IoT, Java, iFogSim2 Simulator*

- Developed and used an algorithm to dynamically allocate tasks based on predefined criteria.
- Implemented various task placement strategies in a simulated IoT environment, using a mix of IoT devices, edge nodes, and cloud servers.

**Development and design of an application for the medical management of an ophthalmology clinic**

Jan 2022 – Aug 2022

*Final Year Project*

*Java, Java Swing, MySQL, SQL*

- Developed a comprehensive patient management system.
- Implemented scheduling and appointment modules.
- Deployed the application on a secure cloud platform for accessibility and scalability.

## INTERNSHIPS

**Internship to develop a medical management application for an ophthalmology clinic**

2021–2022

*Management Project*

*Centre D'ophtalmologie Chlef (OPHTA) Dr: Chemami.*

## PROJECTS AND CERTIFICATIONS

**Development of an application for the general management of a medical clinic**

2022

*Management Project*

*Java, Java Swing, MySQL, SQL*

**Portfolio Project**

2024

*Personal Portfolio*

*HTML/CSS, JavaScript*

## EDUCATION

**University of Hassiba Ben Bouali**

Chlef, Algeria

*Degree: Master's*

*Aug 2022 – Jul 2024*

Major: Computer Science

Specialization: Software Engineering

**University of Hassiba Ben Bouali**

*Degree: Bachelor's*

Field: Mathematics and Computer Science

Major: Computer Science

Specialization: Computer Systems

Chlef, Algeria  
*Aug 2019 – Jul 2022*

**Lycée IDAIKRA Mohammed -Ténès-**  
*Baccalaureate in Electrical Engineering*

Chlef, Algeria  
*Jul 2019*