

# KARAMA ABDELJABBAR

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### DIPLOMAS

- **2014-2016** High Institute of computer science and multimedia Sfax-Tunisia (ISIMS)  
**Master's degree in computer science and multimedia.**  
Received with honors (very good mention).
  
- **2012-2014** High Institute of computer science and multimedia Sfax-Tunisia (ISIMS)  
**Professional Master's degree in Information Systems Engineering.**  
Received with honors (very good mention).
  
- **2011-2012** Faculty of Sciences Sfax-Tunisia(FSS)  
**Fundamental License Degree in Computer science.**  
Received with honors (good mention).
  
- **2007** **Bachelor's degree in Mathematics with mention good.**

### PROFESSIONAL EXPERIENCES:

- **January 2012 -- June 2012** (6 months): Training period at Wise (Sfax-Tunisia)  
**Subject:** developing a parking management application based on the **J2EE** standard.  
**Tasks performed:**
  - Create an application that allows the registration and allocation of parking space for the gear of a company.

- ❑ **January 2014 -- June 2014** (6 months): Training period at Groupe Loukil (Sfax-Tunisia)
  - Subject:** Develop a rental search application for web and mobile clients based on [JSF](#) and [Android](#).
  - Tasks performed:**
    - This project consists in conceiving and developing a web and mobile application to rent or publish sites on Android.
    - The conceptual modeling of this project was been produced with the modeling process [2TUP](#).
    - The realization of this project was been elaborated with [JAVA](#) programming language for twice mobile and web application and [MySQL](#) management system database using [Hibernate](#).
  
- ❑ **January 2015 - February 2016: MASTER PROJECT** (1 year) : Research's training period at MIRACL (Multimedia, InfoRmation Systems and Advanced Computing Laboratory) at the High Institute of computer science and multimedia Sfax-Tunisia (ISIMS)
  - Subject:** A new approach for Task Scheduling Problem in Cloud Computing Environments.
  - Tasks performed:**
    - Implementing and designing of *PSO* (Particle Swarm Optimization) method in the discrete binary version.
    - An improved metaheuristic technique *ED\_BPSO* in the area of task scheduling in cloud environments was been developed to provide efficient resources utilization.
    - Using more than one optimization algorithm together to form hybrid versions, such as the use of the Simulated Annealing method to enhance the performance of *PSO* (Particle Swarm Optimization) and the quality of its solutions.
    - Used technologies: [java/J2EE](#).
  
- ❑ **September 2018 – September 2019:** Research's training period at Faculty of Sciences Sfax-Tunisia(FSS)
  - Subject:** A new approach for Task Scheduling Problem in Cloud Computing Environments.
  - Tasks performed:**
    - Implementing and designing of *KP* (Knapsack Problem) algorithm in the discrete binary version (0-1 Knapsack) using [C](#) programming language.
    - Implementing sequential and parallel algorithms to solve the knapsack problem using multithreading with [OpenMP](#).
    - Used technologies: [C](#), [OpenMP](#).
  
- ❑ **September 2020 – until now:** PhD researcher at Faculty of Economics and Management of Sfax (FSEG), **REGIM lab** (Research Groups in Intelligent Machines).
  - Subject:** Deep Mobile Hand Multi-modal Biometric Authentication System
  - Tasks performed:**
    - Making the state of the art on what is requested in my thesis subject.
    - Identifying precisely the research problem, select the bibliographical references and arrive

at a comparison between the existing works in order to exploit its results.

- Proposing an experimental mobile acquisition protocol given the originality of the database and the absence of benchmarks dealing with the same problem.
- Implementing some Hand\_crafted and deep solutions for fingerprint authentication.

## COMPETENCE IN COMPUTER SCIENCE:

- **Methodologies:** UML and Mérise.
- **Programming Languages:** Python, C/C++, Java, Pascal, Matlab, and Maple.
- **Database:** MySQL, Oracle and SQLserver.
- **Web technologies:** Web Services, Semantic Web Services, HTML, XML, JavaScript, JSP, JSF, PHP, Servlet and J2EE.
- **Framework modeling and simulation of infrastructures and cloud services:** CloudSim.
- **Machine Learning Software:** Weka.
- **Application programming interface (API)** that supports multi-platform [shared memory multiprocessing](#) : OpenMP (Open Multi-Processing)

## TEACHING ACTIVITIES

- **Academic year 2020-2021:** Temporary teacher at the National Engineering School of Sfax (ENIS) Sfax University, Tunisia.

**Taught course:**

- Practical work: Advanced languages: JAVA.

## LANGUAGES

- **English:** read, written, spoken
  - Certificate at Wanderlust International Language Center, 2014, Sfax-Tunisia
- **French:** read, written, spoken
- **German:** basic
- **Arabic:** mother tongue.

## INTERESTS

- Enjoy reading, sports and traveling.