

# NOUREDDINE KAMZON

## Software Engineer

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### EDUCATION

**ENSIAS - ENGINEER DEGREE**  
EMBEDDED AND MOBILE  
SYSTEMS ENGINEERING  
2016-2020 | Rabat, Morocco

**CPGE MOULAY EL HASSAN**  
TRAINING FOR ENGINEERING  
SCHOOLS.  
2014-2016 | Tanger, Morocco

**MATH BACCALAUREATE**  
2014 | Chefhcaouen, Morocco

### LINKS

Website:// [kamzon.github.io](https://kamzon.github.io)

### SKILLS

#### SOFTWARE SKILLS

- Algorithms.
- Graph Theory.
- Programming Skills: Python, C/C++, C, Java.
- Web developement: Html, Css, Java Script, ReactJS/Bootstrap, .NET CORE.
- Database: MySQL, SQLserver.
- Distributed version control: Git.
- Unix, Windows.
- AndroidStudio.

#### MACHINE LEARNING/DEEP LEARNING

- Supervised learning
- Unsupervised learning)
- Reinforcement Learning.
- Neural networks
- Computer Vision: Image segmentation, Object detection, Images classification.
- Frameworks/Libraries: PyTorch, tensorflow, Scikit-learn, openCV, Keras, Pandas, numpy, scipy.

#### MATH

- Linear Algebra • probability and statistics • Calculus.

### LANGUAGES

- English • French • Arab.

### EXPERIENCE / INTERNSHIPS

#### HENCEFORTH | CS ENGINEER INTERNSHIP

March 2020 - August 2020 | Rabat, Morocco

Design and implementation of an IM mobile application using computer vision techniques (Deep learning models).

- Development of instant messaging mobile app.
- Training of Deep learning models and deploy them into the application using tensorflow.

#### FREERAY | SUMMER INTERNSHIP

July 2019 - August 2019 | Rabat, Morocco

Design and implementation of a smart house system controlled by an android app via wifi.

- Recovering data from sensors and control the system using MQTT protocol.
- Plot the data into graphical interface.
- Tools: MQTT protocol, Raspberry pi, ESP8266, Sensors, python.

### PERSONAL PROJECT

#### FULLSTACK: EMPLOYEE MANAGMENT PLATFORM | C#, .NET CORE, REACTJS/BOOTSTRAP, SQLSERVER, GITHUB.

2021 | [https://github.com/kamzon/fullstack\\_empolyee\\_app.git](https://github.com/kamzon/fullstack_empolyee_app.git)

- Build a web application to manage the Employees and departments.

#### PATHFINDING VISUALIZER | WEBSITE, JAVA SCRIPT, REACT, GITHUB.

2021 | <https://github.com/kamzon/PathfindingVisualizer.git>

- Build React.Js application for visualizing pathfinding algorithms.
- Implement graph theory algorithms (Dijkstra, A\* algorithm ...).

### ACADEMIC PROJECTS

#### PNEUMONIA DETECTION IN PNEUMOTHORAX RADIO | Object detection - keras - CNN - nih chest x ray dataset.

2020 | <https://github.com/kamzon/Pneumonia-detection.git>

Design and implementation of a computer vision model to detect Pneumonia from chest radiography using CNN.

#### COLORING/ DENOISING/ COMPLETE IMAGES USING AUTO-ENCODER | keras - CNN - Auto-encoder

<https://github.com/kamzon/auto-encoder.git>

CNN model using auto-encoder for coloring, denoising and complete images.

#### DEVELOPMENT OF A DASHBOARD RECOVERING DATA FROM DIFFERENT ONBOARD SENSORS. | IOT - MQTT Protocol - Raspbery Pi - NodeMCU - Sensors - Python - influxDB.

- Recovering data from sensors using MQTT protocol.
- Plot the data into a dashboards in graphical interface.

#### SPARK 2014 COMPILER | C language - Flex - Linux - Scrum

Developement of a compiler Spark2014 programming language, using C language, Flex.