## in rabii-elbeji 🕠 rabi3elbeji 🄰 rbelbeji

# Rabii Elbeji | Resume

**Status:** R&D Engineer, 29 years old

▶ Prog. Languages: Python, C++, Java, JS, Linux Shell

▶ Technologies: TensorFlow, scikit-learn, OpenCV, Docker, Git

**▶ Nat. Languages:** French, English



#### **Experience**

04/18 - Present R&D Engineer | Lead Dev

Open Bee<sup>™</sup> · 
Nabeul, Tunisia

- ▶ R&D around OCR, Computer Vision, NLP and Blockchain
- ▶ Tesseract-based OCR optimization project with image pre-processing approaches and re-training engine with multiple languages.
- Develop and optimize a barcode API (for detection and recognition) using image preprocessing and deep learning models.
- ▶ R&D for administrative documents classification API based on machine learning algorithms.
- ▶ Ethereum Smart-Contract and IOTA for document tracking.
- DevOps tasks (Docker, CI/CD, Prometheus, Grafana, ELK Stack, ...)

**Technologies:** C++, Python, Java, Tesseract, OpenCV, Leptonica, TensorFlow, scikit-lean, Ethereum, IOTA, Docker

10/17 - 12/17 **Independent** 

**♀** Tunisia

▶ Develop a text detection and recognition API in real scenes.

Technologies: Python, TensorFlow, Transfer-Learning

01/16 - 09/17 **Software Engineer** 

HOHWebSolutions · ♥ Mahdia, Tunisia

- ▶ Build a website for managing data from different resources (Databases, Excel files).
- ▶ Build website modules for a VOIP telephony System based on the Asterisk server.
- ▶ PHP and NodeJS back-end servers for some modules.
- ▶ DevOps Tasks (fail2ban, Prometheus, Grafana, ...)

Technologies: NodeJS, PHP, PHP Zend, Linux Shell

12/15 - 06/16 Android App development Trainer

lBIL Training Center · ♥ Sousse, Tunisia

Technologies: Java, PHP, Android-Studio

#### 02/15 - 09/15 Engineering degree project

É ENIG · ♥ Gabes, Tunisia

▶ Develop a real-time detection, classification, and tracking methods for red-edges road signs plus a comparative study with two other recent methods.

- ▶ Perform 3D localization of panels using a stereo-vision sensors.
- Develop a method for lane markings edges extraction based on the normalized cross correlation.

Technologies: Python, Scikit-Learn, Scikit-Image, NumPy, OpenCV

#### 08/14 - 09/14 Engineer Internship

**≦** ENIG · **♀** Gabes. Tunisia

▶ Design and develop a quality of service (QoS) control tool for the supervision of the 2G / 3G network with administrative control.

Technologies: Java, Android, C#, PHP

### 02/14 - 04/14 Final Year project

É ENIG · ♥ Gabes, Tunisia

▶ Develop a software tool for alphabet letters recognition based on the signs of the user's hand with the aim of helping the deaf-mutes people to learn faster and easier.

Technologies: C#, EmguCV, OpenCV Training Module

#### **Education**

2017 - Present Ph.D. student

ENIT · ▼ Tunis, Tunisia

**Specialty**: Information technology (STIC)

2012 - 2015 Engineering degree

≦ ENIG · ♥ Gabes, Tunisia

**Specialty:** Networks & Communications

2010 - 2012 **Preparatory studies** 

ISSAT Mahdia · ♥ Mahdia, Tunisia

**Specialty:** Mathematics & Physics

2009 - 2010 Bachlor Degree

**Specialty:** Experimental Sciences

#### Publications

21 July 2018 ICDEc 2018

P Brest, France

An Improved CNN Steganalysis Architecture Based on "Catalyst Kernels" and Transfer Learning.

Authors: Rabii El Beji, Marwa Saidi, Houcemeddine Hermassi, Rhouma Rhouma

01 juil 2016 ICIAR 2016

Póvoa de Varzim,Portugal

A Comparative Study of Vision-Based Traffic Signs Recognition Methods.

Authors: Nadra Ben Romdhane, Hazar Mliki, Rabii El Beji, Mohamed Hammami

20 juin 2016

**IEEE Intelligent Vehicles Symposium** 

• Gothenburg, Sweden

Combined 2d/3d Traffic Signs Recognition and Distance Estimation.

Authors: Nadra Ben Romdhane, Hazar Mliki, Rabii El Beji, Mohamed Hammami

