

Khalil THABET

11, 7348 th Street, El Menzah 9 Tunis 1013

khalil.thabet@ensi-uma.tn

+216 24 47 65 27

[linkedin.com/in/khalil-thabet](https://www.linkedin.com/in/khalil-thabet)

github.com/KhalilThabet

khalilthabet.live

ACADEMIC QUALIFICATIONS

- Computer Science Engineering's Degree
Tunis, Tunisia
September 2020 - September 2023
National School of Computer Sciences - Manouba
- Undergraduate Studies in Mathematics and Physics
Tunis, Tunisia
September 2018 - September 2020
Faculty of Mathematical Physical and Natural Sciences Of Tunis
- Baccalaureate Degree In Mathematics
From 2014-2018
In 2018 with 'Good average' grade

COMPUTER AND LANGUAGE SKILLS

	Beginner	Intermediate	Advanced
Development	Bash, GStreamer, ROS, Flask, STM32, Golang, FPGA, OpenMP	Android, Java, Arduino, CUDA, C++, C, VHDL, Javascript, ReactJs	Assembly, QT, Python
Network		PacketTracer, Wireshark	
Modeling	Method B, BPMN	UML	
Tools	Docker, Tensorflow, Kubernetes	OPENCV	
Methodology	2TUP, SCRUM	Waterfall, V-Shape Model	
DMBS	OracleDB	MySQL, MongoDB	
Languages	German		French, English, Arabic

PROFESSIONAL EXPERIENCE

- GPU Implementation of Spike neural Network using CUDA**
MyWeb
June - August 2022 (2 months)
 - Study of the GPU architecture and familiarization with the **CUDA ToolKit** and **Jetson Nano TX2**.
 - Development of an N-dimensional Array library with **C++** with the different types of algebraic operations.
 - Optimizing different algorithms present inside **Pytorch Library** for n dimensional computations.
 - Developed and executed test plans and analyzed test results with **GoogleTest** Library and **CMAKE** platform.
 - Optimized training up to **60% less time** for images more than 1000 pixel images width.
- Face Recognition Model Based on Spike Neural Network**
School Lab
February - April 2022 (3 months)
 - Research on the different techniques used up to day for face detection and face recognition.
 - Review of the existing solutions using SNN and extracting comparative tables.
 - Created a Face Recognition Model with SNN using **Pytorch** with **62,91% accuracy**.
 - Built integral Data Preprocessing Pipeline for converting input data into time varying sequence.
 - Developed a Detector Model using **OPENCV** and **Tensorflow**.

PROJECTS

- Medical Practice Project**
From April 2019 - May 2019
 - Built a CLI to manage and monitor resources in a medical practice using **Python** to interact with the operating system.
- Belote Card Game project**
From March 2021 - May 2021
 - Development of a multiplayer card game using object-oriented programming and integration of a graphical user interface with **Qt** and **C++** to facilitate the use of the application.
- Web Application For The Management Of a Driving School**
From August 2021 - September 2021
 - Created with **ReactJS** and **MongoDB** to manage and record resource activities through an admin interface, including HR, accounting and financial management, enabling users to access an interactive interface to review their tasks and progress.
- Algorithm visualizer**
From March 2022 - September 2022
 - Developing Pathfinder and sorting Algorithm Visualizer based on multiple algorithms using **ReactJS** to visualize the process of the algorithm.
- Drone Simulation using neural network Genetic algorithms**
 - Designed and Implemented a simulator for a 2D-QuadCopter for moving to desired target using **Pygame** and **NEAT-Python**.

COMMUNITY LIFE & ACHIEVEMENTS

- ENSI Junior Enterprise**
 - Active Member from 2020 to 2021
 - President from August 2021 to October 2021
- Junior Enterprise Of Tunisia**
Jan 2021 - Mar 2021
 - Organization committee of the JTED : Junior Tri-Hybrid Evolution days.
- Competitive Programming Club**
October 2020 - Currently
 - Active Member
 - TCP C Finalist 2022
- Tunisian Finals Of Microsoft's Imagine cup 2017**
 - Reaching local Finals with the project of an entertainment adventure game quest (Mobile app) inspired from the new solar system discovered by NASA, Trappist-1. The app was developed using **BotFramework** and **Android Studio** then deployed on **Microsoft Azure**.
- Codingame**
 - Ranked 6700th - MAD POD RACING Challenge - Gold League
 - Ranked 2804th - Spring Challenge 2021 - Silver League

CERTIFICATIONS

- Fundamentals of Accelerated Computing with CUDA Python ([Nvidia](#))
- Using Python to Interact with the Operating System - ([Coursera](#))
- Python Classes and Inheritance -University of Michigan ([Coursera](#))
- Neural Networks and Deep Learning - DeepLearningAI ([Coursera](#))
- Parallel Programming in Java - Rice University ([Coursera](#))
- Introduction to git and github - ([Coursera](#))

HOBBIES

- Running
- Playing Chess
- Writing Articles (Quora - Medium)
- Solving Coding Problems (Codingame - Codeforces)