

IBRAHIM LAKLAA

CPGE Student

[x1-il.netlify.app](#) [@ ibrahimlaklaa.cpge@gmail.com](mailto:ibrahimlaklaa.cpge@gmail.com) [+212 6 8405-9981](tel:+212684059981)
[@ibrahim_laklaa](#) [ibrahimlaklaa](#) [x1-il](#)

[Fkih Ben Saleh, MA](#)



(*) : direct link

EDUCATION AND TRAINING

Preparatory Classes for Grandes Écoles (CPGE)

CPGE Ibn Ghazi Casablanca

[2023 - 2024](#) [Casablanca, Morocco](#)
• MP* Class

Ibn Abdoun High School

[2021 - 2023](#) [Khouribga, Morocco](#)
• MP Class (2022-2023)
• Second year of CPGE
• MPSI Class (2021-2022)
• First year of CPGE

Baccalaureate

AL KINDI High School

[2020 - 2021](#) [Fkih Ben Salah, Morocco](#)
• Baccalaureate in Experimental Sciences, **Physics** option
• Good Mention

TIPE

Subject:

"Image Processing and Data Encryption in the Context of Major Sporting Events"

Theory Part (Mathematics):

- Art Gallery Theory
- Facial Recognition
- Image Processing
- Encryption and Discrete Logarithm Problem
- Signal Processing

Added Value (Python Software):

- Python software with the following functionalities:
 - Determination of the location of camera installations on a field (Art Gallery Theory)
 - Capture of faces of people passing in front of cameras (Facial Recognition)
 - Optimization of photo quality (Image Processing - Signal Processing)
 - Encryption of images in a database (Encryption)

SKILLS

Persuasive Motivated Teamwork

Problem Solving Graphic Design

Full-stack development (MERN)

Mobile Apps (Android with Kotlin)

Python C++ Java Kotlin JavaScript

TypeScript PHP Ruby LaTeX

Algorithms AI React ReactJs

NextJs Tailwindcss

LANGUAGES

French
Arabic
English



CERTIFICATIONS

Coding

Codingame *

[Dec 2021 - Present](#)

- Python *
- Java *
- C++ *
- Ruby *
- JavaScript *
- PHP *
- Kotlin *
- Artificial Intelligence *
- Algorithms *
- Rapid Development *

Hackerrank

[Dec 2022 - Present](#)

- Python (Basic) *
- Problem Solving (Basic) *
- Problem Solving (Intermediate) *
- JavaScript (Basic) *
- Software Engineer *

PROJECTS

⚠ For more information, you can check my portfolio on the direct link: "x1-il.netlify.app"

NB: The mentioned projects represent individual initiatives, involving coding, algorithmic, design, and schematic elaboration skills.

Face Extraction System

[Github Link](#) *

📅 Aug 2023 – Oct 2023

- Tracking and face extraction system based on video streams from multiple cameras.
 - It uses **TensorFlow** and **OpenCV** for face detection and real-time tracking.
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eCPGE_

[ecpge.ma](#) *

📅 Jun 2023 – Aug 2023

- Website for **CPGE** students
 - Developed with **ReactJS**
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To-do List

[Todo-App_](#) *

📅 Feb 2023 – Mar 2023

- Developed with **Typescript**
 - Website for managing daily and long-term tasks
-

Qr Code

[Qr_Code_Generator_](#) *

📅 Feb 2023 – Feb 2023

- Developed with **ReactJS**
 - Website for generating **QR codes**
-

AI Summary Generator_

[Resume_Generator_](#) *

📅 Dec 2022 – Jan 2023

- Developed with **ReactJS**
 - Website for producing **summaries** of articles from URLs using the GPT-4 model API from OpenAI via Rapid API
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POST-BACCALAUREATE STUDY PROGRAM

- 1st year of CPGE, MPSI stream:
 - Official French CPGE program (Sup)
- 2nd year of CPGE, MP stream (MP* class):
 - Official French CPGE program (MP 3/2 class)
 - Off-program courses covered in MP* 5/2 class:
 - Linear and multilinear algebra over any commutative field
 - Spectral theory in any algebra, over any field
 - General topology
 - Topology of metric spaces
 - Completeness - Hilbert space analysis
 - Theory of compact operators
 - Spectral theory in infinite dimensions
 - Lebesgue integral
 - Fourier transform
 - Fourier series
 - Banach algebras
 - Baire theory
 - Differential calculus in infinite dimensions
 - Lagrange multipliers
 - Some notions of Sobolev spaces
 - Some notions of distribution theory elements of differential geometry and study of manifolds
 - Complex analysis and holomorphic functions