

# IMENE LABED

Date and Place of Birth : December 02, 2002 Algiers

Nationality : Algerian

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Marital Status : Single

## CONTACT & ONLINE PROFILES

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ResearchGate : <https://www.researchgate.net/profile/Imene-Labed-2>

GitHub : <https://github.com/imene-labed>

LinkedIn : [linkedin.com/in/imenelabed1](https://www.linkedin.com/in/imenelabed1)

## PROFILE

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Cryptography and Cybersecurity Engineer with strong applied-mathematics foundations and a research focus on quantum information security. I work on the analysis and design of cryptographic protocols, including quantum-resistant and quantum-based approaches. My experience includes the implementation and testing of quantum cryptographic concepts on real quantum hardware, bridging theoretical models with practical experimentation

## PROFESSIONAL EXPERIENCE

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- **Quantum Cryptography Developer** Self-initiated project using IBM Qiskit Jan 2025–Present
- **Teaching Assistant / Lecturer** *University of Boumerdes* faculty of science
- **Internship – Sonatrach, Exploration Division, Boumerdes** Practical training
- **Freelance Front-End Developer** Developed responsive web interfaces using HTML, CSS, JavaScript

## EDUCATION

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**Master's Degree in Applied Mathematics** Graduated top of class with distinction (5 stars)  
(1st out of 19 students)

**Specialization** : Cryptography and Cybersecurity

University of M'Hamed Bougara – Boumerdes, Algeria, Year : 2023-2025

**Bachelor's Degree in Computer Science**

**Specialization** : Information Systems and Software Engineering

University of M'Hamed Bougara – Boumerdes, Algeria, Year : 2020-2023

## ACADEMIC RESEARCH

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### Graduation Project

Thesis Title : Quantum Cryptography Simulation and Device-Independent Quantum Key Distribution

Objective: Securing systems using quantum physics against future attacks by quantum computers

Achieved an excellent grade: **18/20**

**Graduated top of class (1st out of 19 students)**

**Tools** : Qiskit, Python, NumPy, Matplotlib, IBM Quantum Lab.

Focus Area :

Quantum Computing

Quantum Cryptography

Quantum Key Distribution (QKD) Protocols and Security Enhancements

Research and Work Shared On :

ResearchGate, GitHub

## LANGUAGES

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English (Fluent)    French (Fluent)    Arabic (Fluent)    Japanese (Beginner)

## TECHNICAL SKILLS

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**Programming Languages** : Python, PHP, Java, C, C++, JavaScript

**Databases & Security** : MySQL, XML, Networking, Burp Suite, Windows, Linux, Shell Scripting, Metasploit, Wireshark

**Quantum Programming** : Qiskit, Cirq

**Academic Writing** : LaTeX, Microsoft Word, PowerPoint

## SOFT SKILLS

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- Excellent communication and teamwork
- Strong problem-solving and analytical thinking
- Able to work independently or collaboratively
- Flexible to work remotely or on-site
- Adaptable and fast learner