

# Redwane AITBRAHIM

## Software engineer internship

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### PROFILE

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Computer Science Engineering student at Télécom SudParis - Institut Polytechnique de Paris. Seeking a 6-month graduation software engineering internship starting February 2026.

### EDUCATION

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#### Master of Engineering in Computer Science

Télécom SudParis - Institut Polytechnique de Paris

Present

Palaiseau, France

•Specialization: Software Engineering

•Advanced Algorithms, Software Architecture, Cybersecurity, Formal Methods

#### Mathematics and Physics Preparatory Class (CPGE MP)

Lycée Jean-Bart

2021 – 2023

Dunkerque, France

Intensive preparation program for engineering schools

### SKILLS

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**Programming Tools** — Java, C/C++, C#, Python, SQL, Coq, Git, UML, **Frameworks & Technologies** — Unity3D, JUnit, Spring Boot, .NET Framework, **Network & Security** — TCP/IP, Socket Programming, Encryption, Network Security, Cybersecurity, **Software Engineering** — Agile/Scrum, Test-Driven Development, Object-Oriented Programming, Design Patterns, Blockchain, Solidity, Multi-threading, Formal Methods

### PROFESSIONAL EXPERIENCE

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#### Software Developer Intern

INFOSYSCOM

06/2025 – Present

•Designed secure messaging appl with end-to-end encryption

•Ensured compliance with international security standards (ISO 27001, GDPR)

• Collaborated with cross-functional teams using Agile methodology

#### Full-Stack Developer (Academic Projects)

Telecom Sud Paris - Institut Polytechnique de Paris

2023 – 2025

Palaiseau, France

Analyzed and modified xv6 operating system kernel components (C/C++)

Developed high-performance client-server apps (C/C++, sockets)

Developed secure voting application (Java, design patterns)

Developed interactive 3D game (Unity 3D/ C#)

Designed formal verification model with B method

**Research Developer | Projet CASSIOPE**

2025

*Telecom Sud Paris - Institut Polytechnique de Paris*

Implemented mathematical abstractions including algebraic structures and formal semantics in Coq

Developed proof-of-concept software using functional programming paradigms

Contributed to academic research on theoretical computer science foundations

**LANGUAGES**

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English



French

