

Houssam OUAALITI

Student in Computer Engineering (Year 2), ENSEEIHT

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Professional Profile

Curious and motivated engineering student with hands-on experience in GUI development, algorithmic problem-solving, and network architecture projects. Strong teamwork, adaptability, and ability to quickly learn new technologies.

Education

ENSEEIHT – Toulouse 2024 – Present

Engineering School in Computer Science (Year 2)

INP Preparatory Class – Grenoble 2022 – 2024

L2: Computer Science, Mathematics, Physics

Professional Experience

Operator – TE Connectivity Internship — 08/2025

- Loading and unloading batches, and quality control of electronic sensors.

Operator – STMicroelectronics Internship — 05/2024 – 07/2024

- Handling production batches and performing quality control on panels containing electronic chips.

Technical Skills

Programming Languages: Python, Java, C, Ada, OCaml, SQL, MATLAB

Web Development: HTML, CSS, JavaScript, Angular

Systems & Tools: Windows, Linux, GitLab, GitHub, Wireshark, VS Code, Eclipse

UML Modeling: Class diagrams, Sequence diagrams, Use case diagrams

Project Management: Agile (Scrum), Jira

Projects & Achievements

Battle Dev Thales – Bug-out Shelter 2025 Participated in a competitive programming hackathon focused on protecting a virtual shelter through algorithmic problem-solving, logic, and time-constrained coding challenges.

2D Puzzle Game (Inspired by *It Takes Two*) Character management, collision system, graphical interface, puzzle mechanics.

Technologies: Java (POO), Java Swing/AWT GUI

Interactive Rubik's Cube (2D/3D) Visualization, manipulation, and automatic solving

Technologies: Python, Tkinter, VPython, OpenCV, NumPy;

Concepts: 3D modeling, algorithmic search, OOP

Mastermind Game Multiple solver strategies (random to minimax algorithm), adaptive codemaker, and GUI.

Technologies: Python, Tkinter, NumPy, Matplotlib, itertools

Simplified Internet Service Provider (ISP) Network architecture, routing logic.

File Compression / Decompression Algorithm

Languages

French: C1 — English: B2 — Arabic: Native — Spanish: Beginner