

## Malek Bouzarkouna

Paris, France

+33 6 16 59 15 09 | Malek.Bouzarkouna@etu.sorbonne-universite.fr | github.com/Tinshea | linkedin.com/in/malek-bouzarkouna/

## Software engineer internship application

## Work Experience

Web Developer, Ex Calibra

Summer 2024

- **Developed** a range of web applications, including internal management tools, APIs, website organization, and custom WordPress plugins.
- Contributed to the development of a C++ application, enhancing functionality and improving performance.
- Executed web design tasks and performed occasional interventions on WordPress sites, optimizing and customizing them as needed.

**Fugazi,** Full-time Manager

- Managed day-to-day operations at a busy restaurant, taking on the role of a full-time manager.
- Greeted customers warmly and took their orders with care and professionalism.
- Handled cash transactions, ensuring accuracy in financial records.
- Prepared orders, emphasizing both quality and speed of service.
- Supervised and coordinated the work of employees and delivery personnel to maintain high service standards.
- Resolved customer issues and disputes with diplomacy, finding satisfactory solutions for all parties involved.

#### Education

Master in computer science (Excellency), Sorbonne University | Paris, France

On going

3,33/4.0 Bachelor in computer science (Honours), Sorbonne University | Paris, France

Oct 2020 - June

3.0/4.0 **General baccalaureate (Honours)**, General François-Joseph Talma High School | Brunoy, France

Sep 2019 - July 2020

#### **Projects**

# - OCaml Project: Implementation of ZDD (Zero-Suppressed Binary Decision Diagram) Compression Algorithms

Oct 2023 - Nov 2023

MU4IN511 - Opening (Course Project)

- Developed an **OCaml** project focused on implementing tree compression algorithms, with a specific emphasis on **Zero-Suppressed Binary Decision Diagrams (ZDD)**.
- Gained a **profound understanding** of ZDD concepts and honed **practical skills** in OCaml programming.

#### - TwitKujo: Implementation of a Twitter-Like Social Network

Jan 2023 - June 2023

LU3IN017 - Web technologies (Course Project)

- Developed a Twitter-like social network as part of a university project.
- Acquired proficiency in React, JavaScript, HTML, CSS, MongoDB, Express, Express-Session, Bcrypt.

### - WireOwl: Implementation of a Custom Wireshark

Oct 2023 - Dec 2023

LU3IN033 - Network (Course Project)

- Developed an application similar to Wireshark as part of a university project.
- In-depth understanding of different network layers, manipulation of protocols such as TCP, UDP, HTTP, IPV4/IPV6, ARP.
- Implemented in **Python** with a graphical user interface (GUI).
- Generated **PDF** reports as part of the project output.

#### - System Vote Using Blockchain

Software

Jan 2022 - April 2022

LU2IN006 - Data structure (Course Project)

- Realization of an electoral system vote, each participant has the ability to vote and/or to candidate for an election. The project had been made in **C** language and writes encrypted votes or the candidates' profile in a **file**.
- The protocol used is the **RSA Protocol**. We also used Data structures such as **Hashtable** and **Blockchain**.

## Skills.

**Programming**Python, C/C++, Java, Git, LaTeX, HTML, JavaScript, React, Express, MongoDB, OCaml, MIPS Assembler, SQLite, Haskell, Go, Rust, Docker, Django, TypeScript, Redux

50, 1100, 500 inc., 5 jungo, 1) p 500 inp., 110 uur.

Linux, Logisim, Mars, IBM Rational Software Architect Designer, Unreal Engine, Wireshark

Algorithm, Data Structure, Database, Networks, Computer Architecture, Operating System, Logic, Compilation, Computer Science

Concurrent Programming

**Mathematics** Algebra, Topology, Probability, Series, Arithmetic, Differential Equations

## Languages

French Native
English B2
Arabic B1