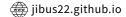
# Jean-Baptiste Le Corre

# **Junior Software Developer**

Paris, France

github.com/Jibus22





# **Projects**

## **BOOTCAMP EMBEDDED DEVELOPMENT**

**MARCH 2023** 

C, atmega328p, library-free, interrupts, timers, adc, uart, i2c, spi

Development of a **firmware** with 10 modes - displaying values from adc potentiometers, sensors, clock (...) on a led screen, clock setting thru uart bus (...).

### **BOOTCAMP DATA SCIENCE**

FEBRUARY 2023

Python, numpy, panda, matplotlib

Matrix manipulations, image filters, implementation of **k-mean clustering algorithm**, feature engineering and ploting data with panda.

#### **TASKMASTER (2 VERSIONS)**

JANUARY 2023

C, system, multi-threading, pthread

Implemented a job supervisor (supervisord-like) and my own line editor with history and autocompletion. Integration of a yaml parsing library for the configuration file. Implemented a minimalist logging library working with a singleton.

- <u>Asynchronous version</u>: Jobs and timers are managed with **signal handlers**. Timers are scheduled through a queue.
- Multi-threaded version: Study case I did for myself to dig multi-threading. Designed with a
  producer-consumer model to handle user input the safest way. Usage of mutex, semaphores,
  barriers, conditional locks and read/write locks.

## WOODY\_WOODPACKER

SEPTEMBER 2022

C, security, packer, ELF

Shellcode **injection**, encrypt and inject self-decryption code into executable ELF binary target. I implemented **segment padding** injection technique (taking advantage of code cave after an executable load segment) as well as **elf shifting** if no codecave had been found.

FT\_LINUX AUGUST 2022

System, cross-compilation, kernel compilation, linux from scratch
Built my own linux distribution following the LFS book. Started from a lightweight virtual Alpine release as a host, then built compilation toolchain, filesystem and finally compiled linux kernel.

## FT\_TRANSCENDANCE

MARCH 2022

reactjs, nestjs, websoket, postgresql, SQL, OAuth 2.0, docker-compose, APIs Web application of an online pong game with leaderboard, profile dashboard, chat interface. I implemented part of back-end, all **websocket** system and front-end in the end.

WEBSERV SEPTEMBER 2021

C++98, HTTP, sockets

Implemented a HTTP/1.1 web server, nginx-like. Using epoll() for linux & kqueue() for macosx to poll socket I/O. CGI handling. Profiling with siege.

FT\_CONTAINERS JUNE 2021

C++98, STL, template, SFINAE, data structures, iterators, constness Implemented some **STL containers**: map, list, vector, stack, queue with **time complexity** of algorithms equivalent to the STL. Implementation of **BST**, circular linked list.

# **Professional experience**

# **FULLSTACK DEVELOPER**

JAN - JULY 2024

Qeeps, Paris

Development of a notifications micro-service. Integration and writing of Cypress components tests. Improved CI/CD pipeline - updated images and dependencies. Proposals accepted and applied for optimizations and best practices: lazy loading, improving cache usage and rtkquery api.

## **AUDIO TECHNICIAN**

2015 - 2019

AmpVisualTv, Paris

Salaried in this french leader company in tv filming. I worked on notable events like UCI Road World Championships, Africa Cup of Nations, FIFA World Cup, African Games.

Junior software engineer passionate and curious about tech. Former audio technician. Exploring and digging several fields of computer science (system, cybersecurity, devops, AI, web). I am now looking for a position. Please checkout my portfolio for more informations & details.

# **Education**

# DIGITAL TECHNOLOGIES ARCHITECT

42 Paris school

2020 - TODAY

BTEC IN AUDIOVISUAL - AUDIO SPE

Lycée Léonard de Vinci, Montaigu

# Skills

- C C++ python3 asm javascript typescript reactjs
   nodejs SQL sass bash
- git github docker cypress •
   RTK Query GCP postgresql •
   mongodb chakraUI •
   kubernetes linux gdb make
- problem-solving autonomy attention to detail

# Languages

### **FRENCH**

native

#### **ENGLISH**

intermediate

### Interests

# **ASSOCIATIONS**

Videobus (teach filmmaking to children). Le Fieald (humor open scene).

#### **SPORT**

Basketball, bmx, climbing, sailing, judo developed team spirit and rigor.

#### **MUSIC**

Played guitar many years, developed