# Jean-Baptiste Le Corre

## Junior Software Developer

 Paris, France
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## 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.

## Projects

### FT_TURING
OCTOBER 2024
**Ocaml, Theory of computation**
Implementation of a Turing machine in ocaml and writing programs for Turing machine.

### CAMAGRU
SEPTEMBER 2023
**Javascript, Node.js, SQL, postgresql, Sass, Vitejs, github Actions**
Instagram-like application made as a SPA. Static version deployed on github pages with github actions. I built my own node.js backend framework with routing and middleware managment.

### 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 **auto-completion**. Integration of a **yaml parsing library** for the configuration file.

### 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.

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Junior software developer 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 view my portfolio for more informations.

## Education

**DIGITAL TECHNOLOGIES ARCHITECT**
**42 Paris school**
2020 - TODAY

**BTEC IN AUDIOVISUAL - AUDIO SPE**
**Lycée Léonard de Vinci, Montaigu**
2012 - 2014

## Skills

- OCaml • 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 creativity and patience.