



Brian Valette

Software Engineer  
with a strong system  
programming and  
Devops affinity

## Skills

## LANGUAGES

C language  
C++  
Javascript  
Typescript

## TECHNOLOGIES

Docker  
Kubernetes  
Azure

## WEB

Nodejs Express  
Nestjs  
Reactjs  
MongoDb/Mongoose  
Sqlite  
Postgres  
Jestjs

## TOOLS

Git  
GNU Make  
Bash/Zsh  
Gdb/lldb  
VSCode, vim  
Miro, Figma

## HUMAN LANGUAGES

French (native)  
English

## Hobbies

Acem Meditation:  
two years of daily  
practice

Chinese Mandarin:  
conversational level  
and always trying to  
code some tools to  
support my learning  
process

## Education



École 42 Paris - OCT.2019 / PRESENT

I got to start from an in-depth understanding of **C and C++**, to web frameworks **Nestjs and Reactjs** with **Typescript**, and many technologies and tools such as **Docker, K8s, GNU Make, shell...**



Ironhack Paris - FEB.2022 / MAY 2022 - RNCP6

I deep dived into the **MERN Stack**, using **HTML, CSS, JavaScript, React, MongoDB** and **Express**.  
The **full-stack approach**, during an intense 10 weeks full time



Azure - JUNE 2020

AZ-900 certification, covering all the fundamentals of Microsoft Azure cloud services. **Score 940 / 1000.**

## Projects

each project has a link to its GitHub repo

## WEB

**PONG GAME:** Team project at 42, creation of a website with **Nestjs, Reactjs** and **Typescript** consisting of a pong game and a chat, user profile...

**MEMORY GAME:** Solo project at Ironhack, implementation of a memory game based on cards pairs with static vanilla **Javascript, HTML/CSS**.

**SPOTIFY MATCHER:** Duo project at Ironhack, creation of a service allowing users to share their Spotify libraries and find matching songs with their friends, **Express** website with server side rendering using Handlebars.

**FIND THE ONE:** Trio project at Ironhack, **fullstack application (MERN stack)**, allowing users to make groups and lists of names for a newborn, providing stats and data about real first names from a few European countries.

## DEVOPS

**DOCKER:** Deployment of a **docker container** for few services (Wordpress, MySQL, PHPMyAdmin).

**KUBERNETES:** Implementation of **Kubernetes** for nginx, wordpress, ftps, grafana, influxBb, MySQL and PHPMyAdmin.

## C++

**CONTAINERS:** Reimplementation of **C++ STL containers** (list, queue, vector...).

**WEBSEVER:** Creation of a simple HTTP/1.1 webserver running on Linux, **in C++**.

## C LANGUAGE

**LIBFT:** Personal **C library**, reimplementing many of the C standard functions.

**GET NEXT LINE:** Function which reads files or standard input line by line, in **C language**.

**PRINTF:** Reimplementation of the **C standard printf(3)**.

**CUBE3D:** Creation of a 3D game **in C**, using raytracing.

**PHILOSOPHERS:** Introduction to multithreading in **C language**.

**MINISHELL:** Creation of a shell interpreter in **C language**, based on POSIX Bash.

## ASM

**LIBASM:** Creation of a few C standard functions using **assembly Intel x86\_64**.

## Before Code: Coffee



**KAWA COFFEE - Roaster and Head of Product - APR. 2017/OCT. 2019**

Set up of a coffee roaster production unit: processes, logistic, QA, departments coordination, serving more than 500 B2B Clients worth over 1M



**CUEILLETTE COFTEA SHOP - Cofounder - MAY 2015/APR. 2017**

Foundation of a coffee and tea shop, building up a business worth 130K



**ALTO CAFÉ - Shop Manager and Head of Training - Dec. 2011/MAY 2015**

Management of coffee shops units and teams, while developing a training center and QA for 20 franchisees across France and Belgium