

Guillaume Bournel

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OBJECTIVE

A position developing software and services.

SKILLS

Languages	Libraries / Frameworks	Services
<ul style="list-style-type: none">• C++• C• Python• JavaScript• Haskell• SQL• Bash script• HTML• CSS	<ul style="list-style-type: none">• Flask• curses / ncurses• curl• curlpp• OpenCV (C++ /Python)• C++17 / C++11• Tensorflow• jQuery• Bootstrap	<ul style="list-style-type: none">• Amazon Web Services• Linux• macOS• VMware• nginx• Apache• MySQL• PostgreSQL• Github• Vim• Homebrew

Others: Adobe Photoshop / Illustrator / InDesign, Microsoft Office, Apple iWork

EXPERIENCE

Blogger - guillaume.io

June 2020 - Present

I maintain an active blog discussing anything related to what I encounter during project development. I also write tutorials and guides.

Full Stack Developer - guillaume

August 2019 - Present

Creating open source software, consistently learning new technologies. Currently working on implementing a C compiler in Haskell among other projects.

Full Stack Web Developer - Institut Sylvie (institut-sylvie.fr)

January 2020 - May 2020

Fully responsive website

Features

Technologies

Here is my first 'real world' project. The shop owner gave me the chance to build my first website from scratch.

Back-end is handled by Flask. Front-end is built from HTML / CSS and plain JavaScript as I didn't feel the need for any library. All persistent data are stored on a AWS MySQL database connected through MySQLdb Python library. The website is hosted on a AWS Elastic Beanstalk instance.

This project taught me a lot about front-end and back-end web development as I had to do everything by myself, from designing the pages to tweaking nginx configuration files.

- Fully responsive design
- The owner can post news / updates that are then displayed on the homepage
- Users can register and get notified about their next appointment, subscribe to the shop newsletter
- The owner can manage products and services displayed as well as create new categories of products or services
- The owner can also manage business hours in real-time
- Visitors can contact the shop through a simple form

html css js
mysql python
flask aws linux
nginx

Front Desk - Kyriad Hotel Nantes

December 2019 - July 2020

- Welcoming international guests in a warm and friendly manner.
- Answering questions and addressing complaints
- Knowing all essential aspects of the hotel operations.
- Registering guests and managing the rooming chart.
- Collecting payments by accepting cash, check, or charge payments from customers.

Auto Technician - Norauto Saint-Herblain

June 2018 - September 2019

Performed maintenance and repairs on all makes and models, including:

- Oil changes
- Tire rotations and replacement
- Transmission flushes
- Front-end alignments
- Battery installations
- Headlight / taillight installations

Conducted necessary repairs and took vehicles for test drives to verify soundness.

PROJECTS See my projects in depth at guillaume.io/projects

Desktop Applications

tinyDLM - C++ Download Manager

C++ download manager built around cURLpp and ncurses

I've never encountered a simple yet efficient download manager that would be free and still maintained.

So I decided to build my own and figured out it would be a great way to learn more about C++, multithreading, sockets and desktop applications and I did learn a lot along the way.

Technologies

C++ curl curlpp curses
macos linux multithreading
cmake

Lane detection program using OpenCV / C++

After spending some time with Tensorflow object detection API, I decided to play with OpenCV library and C++ and find a way to detect lanes without using machine learning.

Technologies

C++ opencv

Web Applications

Business Hours Manager - CRUD application

A JavaScript application similar to what Google Business offers to manage business hours. It allows to dynamically update business hours.

To avoid multiple connections to the database while modifying the hours, every change is stored locally in a JSON variable which is then sent to the server only when 'Apply' is clicked.

Technologies

html css js mysql flask
python

JavaScript search engine

A search functionality is always good to have on a website if you want your users to easily access what they are looking for. That's the reason I made a simple yet efficient search engine for my own website.

Technologies

js html css

EDUCATION

Bachelor of Law - University of Poitiers

Public Law / Tax Law

Mathematics, Physics, Computer Science - University of Nantes

Mathematics - Computer Science

LANGUAGES

English, French