Oscar BRUNELLE

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LOOKING FOR AN INTERNSHIP

STUDENT IN 4th YEAR IN COMPUTER ENGINEERING
- FRENCH BILINGUAL -

As part of my studies at the University of Ottawa, I am looking for an internship from september to december 2020, for a duration of at least 14 weeks.
My work experience is mainly focused on **web development**, I am also trained and interested to work in other computing fields (**network, cyber-security, simulation / 3D / video-games**).

FORMATION

2017 - Today : **Bachelor of Applied Science in Computer Engineering (work-study)**
University of Ottawa, Ottawa (Canada)

2014 - 2017 : **High School Diploma in Science**
Marguerite de Valois' High School, Angoulême (France)

LANGUAGES

French : Native Language

English : Bilingual

Spanish : School level

Russian : Basics

PROJECTS

Personal website
Link : oscarbrunelle.com
Used WAMP, MySQL and phpMyAdmin.
Created multiple tools and reproduced simple games.

Video-game development
Experimental projects in Unity with use of Blender.

WORK EXPERIENCES

2020/01 - 2020/05 : Web developper (Front-end) - National Research Council (NRC) (Ottawa - Canada)
Worked in a team as part of the construction and energy department, learned about the use of energy in buildings and climate change challenges.
Developped tools to visualize and analyse data on a website, using the d3.js library.
Used Java to create new endpoints for data.

2019/05 - 2019/09 : Web developper (Fullstack) - Datacloud Networks (Hearst - Canada)
Web development (main task) : used MySQL for the database, PHP for the back-end.
IPTV project : searched and contacted new partners and sellers, installed antennas and visited installation sites, learned about the different facets of IPTV, wrote reports.
Android development : developped a proof-of-concept Android application to get GPS data.

2018/06 - 2018/07 : Client support - Schneider Electric (Angoulême - France)
Helped in client support, created a database to make issue solving easier.
Learned about UL / CSA / IEEE standards.

SKILLS AND TECHNOLOGIES

Software
- *Web* : Web languages (html, css, js), front-end libraries (JQuery, d3.js, Bootstrap, Font Awesome) and back-end languages (PHP, Java).
- *Database* : Used MySQL in a professional environment, used SQLite and Firebase for an Android application in a school project.
- *Java* : Concurrency and multi-threading, semaphores.
- *C / C++* : Creation of processes and pipes.
- *Android* : Application testing using Espresso and CircleCI, implemented a database, used GPS functionalities.
- *Go* : Concurrency with goroutines and pipes, semaphores.
- *Python / Matlab / R* : Basic use for classes.
- *Prolog / Scheme* : Course on the different programming paradigms.
- *Version control* : Used GitLab, Subversion SVN and Tortoise SVN in a professional environment, used GitHub for personal and groups projects.
- *Networks and communications* : Used network analysis tools like Wireshark and Packet Tracer for a course.

Hardware
- *VHDL / Assembly / C* : Used low-level languages to program Altera DE2-115 cards.
- *Arduino* : Workshop and small experiences on the Arduino Uno card.
- *Soldering*
- *3D printing*

Operating systems
- *Windows* : Daily use.
- *Unix* : Used Ubuntu for Windows and a Kali VM.