



Samuël Hénault Lefebyre

Language: french, english

https://Lefebvre.dev

Formation

• Bachelor's degrees in information technology engineering École de technologie supérieure (ÉTS) Expected 2020

 Diploma of College Studies in Computer science technology Cégep de Saint-Jérôme 2007

Professional experience

2019

Researcher associate, Full Stack analyst-programmer

Study *Brain Health Now* (internship 4 mois) neuro (Montreal Neurological Institute and Hospital)
McGill University (Applied R&D Technology and Funding Solutions Inc.), Montreal

Online platform of psychometric tests

Front-end

o React 16.8.6, Redux, Jest

Back-end

- o Python 3.7, Flask, pytest
- o Docker, traefik, Google Compute Engine, MySQL

Gestion

- o Trello, client issues
- o Jira, agile development, kanban boards
- o GitHub, code management

Analyst-Programmer

2017, 2018

Comerco, Laval (internship 4 months and 6 months)

(Protection plans)

Protection plan management application

• Programmer .Net C#

- Multi-user application with WPF
- o Entity Framework 6, Telerik
- VOIP integration
- o Automatic data validation with email report
- o TFS, Unit test, continuous integration
- Scrum, Agile

Database

o MS SQL Server 2016

Analyst-programmer

2010-2013

Laura Canada, Laval

(Retail sale, women's clothing and accessories)

Financial, transactional, HR, mobile applications

Programmer .Net C#

- Automatic data entry
- Mobile application

• Database

o MS SQL Server 2008 R2

• Documentation

- o Technical report, Performance report
- User manual

• Report

- Report optimization using Stored procedure with ratio of 3:1 to 80:1
- Multiple dimension report

Analyst-Programmer

2007-2009

Aptika, Sainte-Adèle

(Event management,ID card printer)

Programmer

- Application for management of sports event management with real-time web results
- Technical support

Web developper

- o Rebuild custom CMS for online sells
- o SEO management
- Visualisation on mobile platform

Known technologies

Web

- React, VueJS
- CSS (Sass, Stylus), JS (ES9)
- SQL Server, MySQL, PostgreSQL

Application

- Tensorflow, PyTorch
- C#, Javascript, Python, Java
 - NumPy, Matlab, Octave

Software suite

- Visual Studio & Code
- Git, TFS
- OpenCV

List of interests

- Machine learning
- Data analysis, Big Data
- Image analysis, Computer Vision
- Parallel computing, distributed computing
- Internet of Things
- Blockchain architecture
- Audio analysis and speech processing
- Natural language processing
- Brain computer interface
- Digital signal processing
- File compression algorithm
- MPEG standard in audio and video

Online formation

- Machine Learning
 Coursera, Andrew Ng
- Tensorflow for Deep Learning with Python Udemy
- Computer visionwith OpenCV in Python & Machine Learning

Udemy

• The Complete React Web Developer Course (with Redux)

Udemy

Student club – SynapsÉTS

SynapsÉTS is a student club in Brain computer interface.

Project concerned: Design and manufacture of an artificial prosthesis (robotic arm), controlled using electromyogram (muscular electrical impulses). Development of the software platform for signal analysis and motor control.

- Interfacing multiple technologies, from Bluetooth to Python, and Python to Arduino
- Management of team, schedule and tasks
- Team training on programming language
- Using a public source code manager (GitHub)
- Analyze data using machine learning to increase the accuracy of movements

D.C.S project graduation

- Custom color QR code reader, writer
 - o Project before public usage of QR code
 - o Computer vision, with custom encoded message
 - o Recognition of skewed and noised image
 - o Custom algorithm

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