PIERRE-EMMANUEL LÉVESQUE
WEB DEVELOPER

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Montréal

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Accomplished web developer with over 20 years' experience. I have built modules for consuming microservices and data mining/manipulation, worked on website responsive designs, and am currently creating a computer language for music called Orfeo. I am a dedicated professional with a love of learning and a deep passion for problem solving. My focus is on Javascript/Node.js, jQuery, Vue, MySQL, HTML, and CSS.

Skills

Coding	Javascript/Node.js, AdonisJS, jQuery, Vue, HTML, CSS, Bulma, MySQL PHP, Laravel, Kohana, CodeIgniter, WordPress, Joomla, Max, Arduino
Tools	Git, Atom, VSCode, Photoshop, Illustrator, Gimp, Inkscape
Languages	French, English, Indonesian

Work

Full-Stack Developer
Freelance
1997 - Present

- Created websites for various clients in many different industries.
- Used the MAMP stack: macOS/Apache/MySQL/PHP.
- Implemented interactive maps using Google's Maps Platform.
- Implemented image galleries using jQuery modules.
- Designed and implemented database solutions in MySQL.
- Used the frameworks AdonisJS, CodeIgniter, Kohana, and Laravel.
- Built front-ends using Vue.js.
- Created hand-coded sites using HTML and CSS.

Full-Stack Developer
Opéra Vox Populi
concertsvoxpopuli.com
2015 - 2018

- Maintained a Joomla based website.
- Migrated from Joomla to Wordpress.
- Maintained a Wordpress based website.
- Created complex HTML forms for ticket purchasing.
- Fixed bugs in PHP, HTML, and CSS.
- Edited photos and banner images using Photoshop.
- Corrected language mistakes and typos.

Front-End Developer
Internet Go School
internetgoschool.com
2016 - 2017

- Implemented new application features in JavaScript.
- Built a landscape to portrait mode responsive interface.
- Implemented a new feature-full subscription model.
- Fixed audio bugs in Hover.js.
- Fixed various bugs in JavaScript, HTML, and CSS.

Full-Stack Developer
Dewana Bali Tours
2011 - 2016

- Created and maintained the website for Dewana Bali Tours.
- Hand-coded JavaScript, HTML, and CSS for optimal speed.
- Edited photos and created an image gallery with jQuery.
- Created a design featuring elements of balinese culture.

Front-End Developer
Foxy Cart
foxy.io
2010

- Designed and implemented complex dynamic HTML forms.
- Refactored a large PHP class to use a newer version of PHP.
- Created a PSR-4 PHP class to consume FoxyCart's API.
- Fixed various HTML and PHP bugs.

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Projects

Orfeo Programming Language
Designer and Programmer
orfeo.org
2019 - Present

Orfeo is a domain-specific programming language that I have been designing and implementing since 2019. It is useful for various aspects of music making like composing, synthesizer control, scoring, etc. and can also be used for other time related fields like light shows or robotic movement control. Orfeo has become my main project and touches on various areas of programming:

- The compiler is written in Node.js.
- Syntax highlighters were programmed for Atom, Prism, Vim and VSCode.
- An audio engine in Max plays different oscillators controlled by Orfeo.
- Documentation is written using docsify.

NPM modules
Designer and Programmer
2015 - Present

Over the last five years, I have written an extensive collection of over 60 NPM modules useful for a wide range of applications like:

- Common utilities.
- Algorithms to aid music composition.
- Algorithms for the game of go: board drawing, position analysis, etc.

Interlocking Rhythms
Designer and Composer
2015

Interlocking Rhythms is an Arduino based sound installation using woodblocks actuated by solenoids presented at AxeNéo7. It is being updated with a new PCB board controlled by Orfeo. It consists of:

- An electronic circuit used to control electromagnetic solenoids.
- Arduino flavored C code that accepts either MIDI or Orfeo as input.

Music for Pieces of Metal
Musical Director and composer
2015 - Present

Music for Pieces of Metal is a series of five musical compositions I started in 2015. The pieces are all based on Music for Pieces of Wood by Steve Reich and are written for five different Indonesian balinese gamelan ensembles. In 2017, I led a group of nine balinese musicians to record theses five pieces, and I am now planning to edit, mix, master, and release the album in late 2021.

Music Groups

1997 - 2004	Gamelan Giri Kedaton	Université de Montréal

Talks

2020	Orfeo: A Programming Language for Music	Universität Mozarteum Salzburg

Education

1998 - 2001	Master of Music	- Composition	Université de Montréal
1996 - 1998	Bachelor of Music	- Classical Guitar Performance	Université de Montréal
1994 - 1996	Bachelor of Music	- Classical Guitar Performance	Université de Moncton