PIERRE-EMMANUEL LÉVESQUE
SENIOR WEB DEVELOPER

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Montréal

pelevesque.com   github.com/pelevesque   linkedin.com/in/pelevesque

Accomplished senior 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 Raku, Javascript/Node.js, React, Vue, MySQL, HTML, and CSS.

Skills

Coding	Raku, Javascript/Node.js, React, Vue, AngularJS, MySQL, HTML, CSS Bulma, PHP, Laravel, Kohana, Max, Arduino
Tools	Git, VSCode, Photoshop, Illustrator, Gimp, Inkscape
Languages	French, English, Indonesian, learning Spanish

Work

Senior Application Developer
bewave.io
2022 - 2023

- Worked on a FeathersJS/PostrgreSQL Application.
- Used IntelliJ IDEA
- Worked with a team of developers.

Senior Application Developer
smithcommerce.com
2021 - 2022

- Coached and mentored junior developers.
- Worked on Vue and Angular applications.
- Fully redesigned an App using highly modern CSS.
- Worked with managers and designers to solve complex problems.

Full-Stack Developer
Freelance
1997 - 2021

- Created websites for various clients in many different industries.
- Implemented interactive maps using Google's Maps Platform.
- Designed and implemented database solutions in MySQL.
- Used the frameworks AdonisJS, CodeIgniter, Kohana, and Laravel.
- Built frontends using React and Vue.

Full-Stack Developer
concertsvoxpopuli.com
2015 - 2018

- Maintained Wordpress and Joomla based websites.
- Migrated from Joomla to Wordpress.
- Created complex HTML forms for ticket purchasing.

Front-End Developer
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 various bugs in JavaScript, HTML, and CSS.

Full-Stack Developer
Dewana Bali Tours
2011 - 2016

- Hand-coded JavaScript, HTML, and CSS for optimal speed.
- Edited photos and created an image gallery with jQuery.
- Created a travel registration system.

Front-End Developer
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

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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