YOANN MOINET
JAVASCRIPT DEVELOPER

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LATEST STUFFS

ARTICLES, LIBRARIES AND APPLICATIONS

Electron on the AppStore.
Suite of 5 post-mortem articles covering the development of an Electron application, published on the AppStore.
Fenêtre.
Electron Mac OSX paid application.
Open source libraries.
Many open sourced libraries I've created in the latest years. NippleJS, DamonJS and Dotconf for the most notables.

PROFESSIONAL EXPERIENCE

SENIOR SOFTWARE ENGINEER	Zendesk	*2016 - now*

Front-end developer. From mock-ups to production code. Github, Angular / React / Redux / Apollo, Travis, AWS, Gulp / Webpack. Mentorat de Juniors / Intermediates and interns.

Réalisation notable :

1. **Explore by Zendesk.**
Application web de business intelligence acquis par Zendesk en 2015. Je me suis occupé de la transition d'un code base très large Angular 1 vers React / Redux, et d'une build Gulp vers Webpack. Gagnant plusieurs minutes à chaque sauvegarde de fichier.

SENIOR SOFTWARE ENGINEER	Autodesk	*2014 - 2016*

Lead UI & UX developer. From mock-ups to production code. In a continuous integrated environment. Github, Backbone / MarionetteJS, NodeJS, MongoDB, Grunt. Junior and interns mentorship.

Notable achievement :

1. **R&D for cloud rendering inside 3dsMax.**
Plugin developed as a web-app, wrapped in a CEF browser loaded inside 3dsMax. The web-app is usable across native, browser and mobile contexts with the same code-base in Javascript. Polling from a NodeJS backend with a MongoDB and talking to a Job Queuing Autodesk's API.

FRONT-END DEVELOPER	Cossette Digital	*2012 - 2014*

Websites and applications development, both for mobile and desktop. Conceptualization, creation, brainstorming, R&D. HTML5, CSS3, Javascript, NodeJS, PHP.

Notable achievements :

1. **Employees Snapchat - Micro-localization with Bluetooth Low Energy.**
   Hybrid application of texts, pictures and videos exchange between employees. The messages are only visible in the app once the user is at a specific location (determined by a beacon BLE). You need to activate the message by holding it in the app to view it on a remote display. NodeJS Server with Express, Passport for authentication, real-time with Socket.IO and persistence in a NoSQL database (CouchDB).

2. **Aeroplan Milestone - Customizable interactive map and travel photo album.**
   Web application, where Aeroplan customers are shown their various journeys on a map. The user can search for new destinations and add them to their travel log. He can import pictures from Facebook or upload them to create a photo album with Aeroplan trademark. The album is then uploaded to Facebook (where each location is tagged), shared by email or exported as PDF. Back-end PHP with Laravel, front-end Javascript, multilingual. Pictures are retouched with Imagick.

3. **Performance benchmark - Measure and compare performances of the interface.**
   Imported script that records the performance of the application during its use, without affecting its performance. Data is synchronized with the server through an ajax buffer. The script consists in three tools: a crawler, a hooker and an FPS clock. A back-office then displays graphics for comparisons, built with D3.js. Back-end PHP Laravel. Research paper in support.

4. **Video controller - Browse an HTML5 video on a touch interface.**
   A proof of concept to control an HTML5 video on touch interface (tablet or cellular). Visual joystick to scroll the video, control playback and speed. Ability to play multiple videos together with an alpha channel.

5. **Remote trackpad - Control your desktop from your cell.**
   Web application triggered by a bookmarklet. It displays a QR code that is scanned with a mobile device to sync it. It becomes a multitouch trackpad for remote navigation. Connection and data exchange is done by PHP websocket.

6. **Social activity with NFC bracelet.**
   Bracelets NFC identify each guest. They scan themselves on Android terminal to earn points. Scores / badges / success of each guest are updated on giant screens in real time. Back-end PHP Laravel, real-time with Socket.IO, Android terminal with phonegap applications.

CREATIVE TECHNOLOGIST	Cossette Digital	*2011 - 2012*

Development of Flash banners. Conceptualization, creation, brainstorming, R&D. AS2, AS3, Javascript, PHP.

Notable achievements :

1. **iPad hybrid application for Radio-Canada**
   Hybrid web application offering a native ebook experience. Advertising management, navigation statistics, remote news and configurations recovery, local persistence, video player and live radio.

2. **Mobile website for Radio-Canada**
   Mobile website, connected to Radio-Canada's feeds, datas recovery logic to avoid UI glitchs. Retrieving the entire Twitter stream (or filtered) of Radio-Canada's journalists.

3. **DOM Parser WebGL - Extension of ThreeJS WebGL and 3D building through the DOM.**
   WebGL / ThreeJS framework, enabling 3D creation from HTML. With custom tags, one can generate and configure 3D features such as renderers, scenes, cameras, lights and objects, and then attach interactions. Documentation available through research reports.

4. **Events library - Virtualization of interaction events.**
   Centralization of events of interaction across all platforms (Mobile, Tablets, Desktops) and all browsers (Native, Firefox, Chrome, Safari). From three basic concepts, *start*, *end* and *move*, 6 events are generated, *drag start / end*, *swipe*, *click / tap*, *double-click*, *hold*, and gestures as, *pinch / unpinch*, *3-5 fingers*, *rotate*. Javascript vanilla. Research paper in support.

5. **Social activity with QR Code.**

QR badges identify each guest. Once scanned, it delivered a question to be answered in a jQuery Mobile interface. Questions / answers, best/worst matches, were updated in real time on a giant screen. Back-end with CodeIgniter PHP framework.

INTERNSHIP	Cossette Digital	*2011*

Assistance in projects. R&D. AS2, AS3, Java.

Notable achievement :

1. **Kinect and AS3 - Control presentation and playback by motion.**

The kinect is plugged directly into the computer via USB using unofficial drivers. A Java / Processing application receives the raw data from the kinect, the 3D point cloud and treat them via OpenCV. Movements are recognized and trigger relevant interactions (gestures). The processed data is sent via TCP to a library of AS3 tools compatible with the type of interaction offered by a kinect. Documentation available through research reports.

WEB DEVELOPER	Freelance (France + Canada)	*2008 - Now*

Production of websites in partnership with an art director. HTML5, CSS3, Javascript, PHP. Meetings and negotiations with customers.

Notable achievements :

1. **Wordpress multisite. (june-july 2013)**

Wordpress multisite installation with a customizable theme through an accessible and understandable interface.

2. **Sushis website. (june-july 2011)**

One-page featuring parallax animations.

3. **Management and showcase of artists. (october-november 2011)**

Artist management platform, generating a customizable CMS and a web site for each one.

One can view / moderate his guestbook, manage dates of events, modify its content and upload assets (music, documents...) via drag and drop. The administrator manages access, roles, and can build its HTML newsletters to be sent to subscribers. Front-end javascript, backend PHP with CodeIgniter.

DIPLOMA

UQAM	Bachelor in Communication Interactive Media	2008 - 2011

Brainstorm, project design and management, Processing, Arduino.

INTERESTS

Cultural Activities   Cinema. Music. Video games. Reading. Reddit.

References available upon request