# Alessandro Marin

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## tl;dr

Generalist with a keen interest in functional programming, machine learning and distributed systems. Experienced writing scalable web applications across the full stack, rolling out production ready NLP systems and maintaining medium/large data processing pipelines. Not shy about unfamiliar stacks and always keen to work on new problems.

## Education

**Bachelor of Computer Science** with Minor in Economics from the *University of Waterloo* (graduated 2015)

**Favourite courses** Artificial Intelligence, Functional Programming (Haskell, OCaml, Lisp), Computer Networks, Distributed Systems, Security, Operating Systems.

## Work

**JustAvv** ▸
*Co-founder*
Earth
Jan 2016 - present

Co-founded and leading the development of both web application and mobile wrapper. Built in a team of 4 with React, Redux, Node.js and MariaSQL, mobile app packaged with Cordova.

**StuDocu** ▸
*Software Developer, M*
Amsterdam, NL
Sep 2015 - Sep 2017

Working in a small team on the whole stack to improve the largest university document sharing platform in Europe. Leading ML and NLP projects to perform hierarchical document classification, automatically generate exam questions, keyword definitions and flashcards from pdfs in real time using scikit, Luigi, AWS Lambda, nltk. Leading the refactoring of the site from a jQuery based architecture to server-side rendered React + Redux.

**Matterhorn** ▸
*Javascript Developer*
London, UK & Remote
Nov 2014 - July 2015

Architectured and built the frontend of project manager https://matterhorn.io using Ember.js. Built reusable components for innovative UIs, such as sortable tables, draggable and droppable elements, autocomplete option inputs.

**Serious Fox**
*Javascript Developer*
London, UK
Sep 2014 - Dec 2014

Worked in a team of five to develop cross-platform web interfaces in Ember.js and Backbone.js. Developed modular interfaces and offline data synchronization for tablet applications. Built a cocktail making robot.

**Quarry**
*Full-stack Developer*
Waterloo, CA
May 2013 - Jan 2014

Using LESS, jQuery, PHP, MySQL to build pixel-perfect web apps, portals and landing pages for Fortune 500 companies; particular attention to detail and cross browser compatibility (supporting IE6+ like a warrior, not kidding).

## Projects

**Batcher**
*2017*

Distributed scraper using kue, nightmare (based on Electron/Chromium), residential proxies and fun tricks to collect data from more than 500 000 pages daily.

**Wikistack** ▸
*2015*

Ever been down the wiki hole? Wikistack lets you pile definitions from Wikipedia links on a side bar, so that you can learn more about the kernel trick without having to leave the SVM article you're reading.

**Mr. Flappy's House of the Rising Fun**
MHacks 2015

Created an over engineered birdhouse using a Raspberry Pi and a camera to detect if a bird is present, classify its species using The Wolfram Language, then, naturally, Tweet a picture of it. The birdhouse can play calls based on its geo location and comes with an anti-squirrel mechanism.

**Pattern.js** ▸
*2014*

Blazing fast library to recognize patterns in a string given a set of regexps or boolean functions.

**Photobox**
*2014*

Responsive app for hosting, organizing and sharing end-to-end encrypted photos. Restify.js and Mongoose in the backend, a custom event-driven js framework integrated with Pjax for crazy fast content loading in the frontend. Crypto and EXIF data collection fully done on the client.

**Feedr** ▸
MHacks 2014

Designed and Built, in a team of three, a real time social RSS aggregator with the ability to create playlists of feeds and share them with friends. Back-end in Node.js using Socket.io and Async.js, font-end using Bootstrap, jQuery.

## Skills

**Programming Languages**

{ Javascript, Coffeescript, ES6 }, Python, PHP, Rust, OCaml, HTML5/CSS3, C++, Scheme, Bash, Lua.

**Tools**

scikit-learn, nltk, MySQL, MongoDB, React, Redux, Gulp, Laravel, Node.js, Express, Sails, Knex.

**Languages**

Native proficiency in Italian and English, intermediate French. Basic Spanish.

**Interests**

Music, longboarding, table tennis, foosball, juggling, cooking, hackernews.