

# Alessandro Marin

linkedin.com/in/ale-marin ▼ github.com/ale316

alessandro.m316@gmail.com

## 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

Architected 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.