

# STEFANO REGOSA

I'm a self-taught software engineer specialized in **Typescript**, **React.js** and **Node.js** with a proven expertise in building complex applications. My focus is writing scalable, secure and performing apps in iterative agile cycles, making sure the software is designed with long-term maintainability in mind.

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## Currently

Hacking in **Typescript** & **Rust** | loving **Open Source** | interested in **Functional Programming**

## Experience

### Senior Software Engineer

@ [BEE by MailUp Group](#) | Oakland, California (full remote) | (Feb 2020 - Present)

#### Role:

I'm leading the progressive architecture rewriting of the company main product [Bee Plugin](#) from Javascript to Typescript with the Functional Programming paradigm. The project is an embeddable web-based application used by more than 1 million users every month in more than 500 SaaS applications.

#### Main activities:

- designing a new data flow for the entire application in order to fix critical parts
- reverse engineering and rewriting the actual codebase in order to reduce side-effects
- optimizing CD/CI workflows
- producing technical documentation
- test driven development
- participate in Code Reviews and provide feedback

#### Accomplishments:

- reverse engineered and rewrote the loading engine architecture reducing the loading times to a third compared to the previous implementation.
- developed a custom typesafe middleware to facilitate the progressive migration to a different state management solution
- developed a ui framework following atomic design principles with compound pattern
- developed the whole frontend architecture of
  - Workspaces | AMP support | Headings | Preview
- produced a *Coding Style guide* to define programming conventions, style, and best practices across the teams.
- introduced Pull-requests / Code-reviews in the Software development lifecycle

**Technologies used:** TypeScript, React, Fp-ts, Node.js, Jest, Enzyme.

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## Frontend Software Engineer

@ [Buzzzole](#) | Italy (full remote) | (Mar 2019 - Feb 2020)

### Role:

I was working alongside the product team and the UX team in developing new features of an enterprise data-driven influencer marketing SaaS platform. The real challenge was migrating from a PHP monolith with JQuery and DOM injected React component to a single page application with microservices in Go. With a CI/CD process validated via ( code review / pull requests ) we managed to do it incrementally without regressions. Every component was developed from scratch without external libraries besides React traspiled and imported within the project.

### Main activities:

- pair programming
- optimized CD/CI workflows
- translate UI/UX design wireframes into actual code
- producing technical documentation
- maintaining, refactoring, and re-engineering part of the actual codebase
- monitor and process pull requests.
- participate in Code Reviews and provide feedback

### Accomplishments:

- introduced frontend Unit-testing practice
- developed the whole frontend architecture of the project
  - Saved List
- developed many section of the SaaS platform
  - Discovery
- designed and developed the Json Web Token frontend architecture
- introduced a different way to serve our internal framework reducing significantly deploy time and compiled size

**Technologies used:** React, Typescript, Node.js, Styled-components, Redux, Jest, Storybook

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## Javascript Fullstack Developer

@ [Ireputo](#) | Italy (full remote) | (Jun 2017 - Mar 2019)

### Role:

In a very small team i was in charge of developing on both **client** ( *single page application React Typescript* ) and **server** ( *several micro services mostly in Node.js, PHP* ) for a SaaS data-driven Credit Management Application which generated customized reports. Every feature was tailored starting from stakeholders needs, and data sources ranged from Rest API exposed by some Big Data providers such as Cerved and Bureau Van Dijk to proprietary databases.

### Main activities:

- reverse engineering
- micro-services development
- design and launch new features
- implementing custom UI elements starting from customer's desiderata
- breaking monolith into single page app with microservice architecture

### Accomplishments:

- developed several API gateway to organize data coming from different sources
- developed the whole front-end architecture
- database design, development, and management

**Technologies used:** Javascript, D3, Typescript, Node.js, React + Redux, PHP, Java, Jest, Storybook, PostgreSQL, Mysql, Docker, RabbitMQ, MongoDB, ELK.

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## Backend Developer

@ [Com-ita](#) | Italy (full remote) | (Jun 2015 - Mar 2017)

### Role:

My role was develop and maintain custom bots, crawlers, parsers, scrapers and several ETL tool for transforming and loading data extracted from different sources such as website, pdf, csv, xls.

### Main activities:

- database management
- micro-services development
- custom ETL tool development

### Accomplishments:

- development of custom software solutions for small/medium businesses
- breaking monolith into distributed services architecture
- administration of a 60 million rows database
- data mining, ETL, R&D

**Technologies used:** PHP, Java, Node.js, Mysql, MongoDB, ElasticSearch

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## Frontend developer

@ [Freelance](#) | Italy (full remote) | (Jun 2013 - jun 2015)

### Main activities:

- custom Website themes development
- web Apps development
- custom software development for small business

**Technologies used:** PHP, Javascript, JQuery, CSS , HTML5 , Mysql

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## LANGUAGES

**Italian:** Native

**English:** B2