

Benjamin RAYMOND

Software engineering in Geneva - from January 2020

23 years old

french nationality

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Technical skills

Software Development

JavaScript TypeScript + Node/Express + Angular

+ React

Database

PHP 7 + Laravel

+ MySQL

+ MongoDB + Symfony

Android Java

+ JEE, EJB + Ionic + RMI, ESB + JNI

Software engineering

- + Git, SVN + Trello
- + Continuous integration
- + Agile project management

Data Science

Data analysis

- + Web scraping + Pandas
- + Amazon AWS
- + Zeppelin, Jupyter (Spark)
- Machine learning

Data visualization

- + Plotting: D3.js, Plot.ly
- + Animating: Flash, Pixi, Phaser
- + Editing: Photoshop, Illustrator

Langages







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Other

- Driver's license
- BAFA
- Paragliding initial certification

Experience

Data Science Intern

• Intern



Feb. - Aug. 2019

Using Big Data to gather business insights, in CTO Office:

- Design an optimized & reliable data analysis pipeline for client behavior analysis
- Domains: Data science, data engineering, data visualization, soft. engineering
- Technologies: Amazon AWS, Zeppelin, Spark

Reference: Nicolas Schiper (supervisor)

IT Consultant

Developer



Oct. - Feb. 2019

Security & scalability audit for a b2c platform.

- Meeting w/ the client, advising, code audit for scalability and security
- Domains: Web security, web scalability, soft, engineering

Software Engineer Intern

... Intern



June - Sept. 2018

Internship at CERN - European Organization for Nuclear Research

- Implementing a remote terminal for accessing the LHC magnets power converters
- Implementing signal processing features for the PowerSpy application
- Technologies: Python with asyncio, Javascript

Reference: Joni HERTTUAINEN (supervisor)

Co-funder - App for mathematics teachers

Co-funder

← domatex.fr

2015 - now

Co-founder in partnership with a mathematics teacher.

- Dvp. of the app, ux, latex compilation servers, sysadmin
- Setting up partnerships, customer relationship (5,000 users currently)
- Technologies: PHP7, SQL, Node, TypeScript, Stripe, AngularJS, LaTeX

Reference: Stéphane MONTÉGU (co-funder)

Software Developer & IT Consultant

Freelance



2013 - 2016

Discovery of the corporate world, customer portfolio development Adaptability to different sizes of companies (SME, TPE)

NovaPharm laboratories inventory management system

- Custom development of the intranet (php / mysql):
- Immersion in the company

Intervention on CMS

- oscarlett.com: Custom developments, automation scripts
- booking.escattes-aventure.com: Php / mysql booking module online
- lesgourmands.com: Complete joomla module for online booking

Camp counsellor

Employee Employee



Eveil en mouvement **Escattes Aventure**

Summer 2015



- Reception of participants in French and English
- Group & activity animation, equipment safety check (for Escattes Aventure)

Education

EPFL - Ecole Polytechnique Fédérale de Lausanne

Erasmus exchange at EPFL

Main courses: Machine learning, Applied data analysis, Data visualization, Computer Security

Master in Computer Science and Applied Mathematics at ENSEEIHT

Student

Toulouse, France

Enseeiht - INP Toulouse

(2016 - 2019

(\) Sept. 2018 - February 2019

Courses (in French and English):

- Applied Mathematics (numerical optimization, big data, notions in computer vision)
- Computing (operating system, parallel programming, networks, security)

Lausanne, Switzerland

- Introduction to management (accounting, law, simulation and business management)

Group projects, oral defenses.

Preparatory class for the grandes écoles

Montpellier, France

High school Jean Mermoz

(1) 2014 - 2016

Intensive training in mathematics, physical sciences and engineering sciences, preparing for the entrance exams to the French engineering schools.

Scientific high school diploma

Student

Castelnau-Le-Lez, Fr.

High school G. Pompidou

(🗘 2014

With honours, option computer science

Personal projects

Web Application - Humorous image bank

Funder

← tiny.cc/5y11az

2016 - 2018

The site lists humorous stickers to enrich conversations, such as emojis.

Project led from end to end.

- Functional specification of the application
- Site security (csrf, xss), anti protection against ddos (nginx + fail2ban limitations)
- Optimization of database access (Memcached, filesystem cache)
- API and chrome plugin development to integrate stickers on various websites
- (In progress) Redesign of the current site under NodeJS / Express for the back-end, Angular for the front-end Site statistics: 6,000 visits per day, 12,000 registered members, more than 150,000 published images.

Technologies: Laravel, PHP7, MySQL, Memcached, Ionic, Angular, Add-on Chrome / Firefox / Opera

Hidoop - Distributed execution of Map-Reduce applications

Agile Project Manager (=) tiny.cc/mz11az

ENSEEIHT

(2017

Project carried out in the school setting, over several months.

- Establishment of a platform allowing distributed and parallel execution of Map-Reduce type applications
- Platform test: Calculation of PI with the Monte-Carlo method
- Creation of deployment scripts, documentation of the code in javadoc format
- Management of a team of 5 developers, application of agile methods

Technologies: Java, Socket, Semaphores, RMI, bash

PixiFight - Browser Realtime Multiplayer Game

Developer

tiny.cc/rx11az

2015

Browser game, where you control a player in a 2D universe, and where you can move in a randomly generated map of more than 10,000,000 blocks.

- Management of the display of other players (client-side prediction)
- Memory and bandwidth optimization data storage, client / server communications

Showcase project, the demo is still running but there is no publicly published version of the game

Technologies: TypeScript, Node, WebSocket, Javascript, CreateJS