

# César Jeanroy

Software Engineering Student & Full stack developer



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## Work experience

### Full stack engineering Internship (Ruby on Rails)

6/16 - 12/16

[Strava](#), San Francisco (United States)

Exposed new data on Strava Public and Internal API

Led engineering part of a critical project

Enhanced Strava web app using Haml, CoffeeScript and Backbone.JS

Strengthened Strava web app by fixing security issues

Programmed a Ruby parser to automate creation of clubs and events

Reviewed teammates code with GitHub

Organized data migrations on large datasets

STRAVA

### Full stack developer & Java developer

4/14 - 5/16

[National Bank of Canada \(IT Operation\)](#), Montreal (Canada)

Designed and implemented 3 projects to monitor and send real time updates of production state

Created functionalities to send reports to follow critical jobs or transfers and to be alerted of a problem

Designed applications for managers and CEO with access from any device to keep track of KPI

Developed APIs to create alerts and access live data production



NATIONAL  
BANK

### Teacher assistant (Software analyse and conception)

8/15 - 1/16

[École de technologie supérieure](#), Montreal (Canada)

Supported students applying theory taught in lecture during their lab session

Guided students during each iteration of their semester project

Responded to questions and concerns regarding implementation issues

Graded team's iteration plan, diagrams, and implementation of the project



Le génie pour l'industrie



## Education

### École de technologie supérieure

2013 - 2018

[Software Engineering](#), Montreal (Canada)

### University of New Mexico (exchange)

Spring 2017

[Software Engineering](#), Albuquerque (United States)



## Exciting school projects

### Food delivery service - [MySQL](#) / [JSP](#) / [JS](#) / [Google Maps API](#) / [PayPal API](#)

Created an app for a food delivery service. Customers can order food from the web application and pay with PayPal. Restaurants manage their menu offered and receive notifications when an order is placed. After an order is finished being prepared by the restaurant, the delivery service receives a notification to deliver the order to the client using Google maps to find the fastest route.

### Fractal generation (Parallel & GPU prog.) - [C](#) / [Open MP](#) / [MPI](#) / [Open ACC](#)

Created 3 versions of a program that generates fractals. The first version uses shared memory, the second version uses distributed memory and the third GPU computing.

### JPEG like encoder & decoder - [Java](#)

Created a program to encode PPM pictures into a private file type using the same encoding process as JPEG.

### Graph theory applied to snow clearance - [Java](#)

Created a program to find the shortest path to clear the snow of a city, avoiding streets already prepared.

### Poker hands & Empirical calculation of probabilities - [C](#)

Created a program to find the rank of a hand (Straight flush, Four of a kind, ...). For each card in the hand, the program calculates the probability of getting an improved hand by discarding that one card and drawing a replacement from the cards remaining in the deck.

### Maze generator & solver - [C](#)

Created a program to generate a random maze of a given width and height. Each maze must have exactly one path that connects the two outer edge openings. The maze and its solution path can be drawn and exported as a BMP picture.



## Personal Project

### #CAMPCHICKENS2015 [Google Play](#)

Mobile application made for the training camp of my triathlon club. This application gave access to the list of things that had to be brought, contact information and the map of the bike ride.

Technologies: [PhoneGap](#), [HTML5](#), [CSS](#), [JavaScript](#), [Google Maps API](#)



## Free Time

Spend time with my friends  
Play drums and guitar

Practice triathlon in a club  
Go to software meetup