

# Tristan Saumure Toupin

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## Objectives

Make use of my skills and experience in programming and software architecture in an engineering environment during a summer internship in 2018.

## Education

2015–present **B. Eng. Software engineering**, *McGill University*, Montreal.  
2013–2015 **DEC Science de la Nature**, *Cegep de Valleyfield*, Salaberry-de-Valleyfield.

## Experience

Summer 2017 **Software Developer Intern - Enterprise Division - R&D Nina Web**, *Nuance Communication Inc.*, Montreal.  
Designed an internal tool for Nina Knowledge by extending a web application and creating a Chrome extension allowing the Sales team to create tailored demos to customers. Implementation of a continuous integration technique of builds and deployments to the DEV env. of Nina Web. Documentation of Nuance's personal assistant's auto-generated middleware API.

Summer 2015–2016 **Préposé aux cuves (Tanks attendant)**, *Zinc Électrolytique du Canada Limitée*, Salaberry-de-Valleyfield.  
Monitored and optimized the efficiency of zinc production by controlling temperatures of 204 tanks of electrolyte through interventions and procedures using manual tools.


## Personal & Academic Projects

Summer 2017 - Present **Instagram bot**, Programmed a bot capable of wisely following, liking and commenting Instagram posts depending on preferences previously adjusted by the user.

Summer 2017 **Convolutional Neural Networks (CNN) for Visual Recognition**, Created a fully functional CNN while learning the basic of deep learning (first assignment of Stanford's CS 231n online class) in Google Cloud Computing Platform.

Spring 2017 **Messenger bot**, Coded a bot reminding homework and exam dates using Messengers' API and Heroku platform.

Winter 2017 **Door lock**, Designed and built an Arduino based lock system for my apartment's front door using RFID technologies.

Fall 2016 **Autonomous robot**, *Software manager*, **Winner** of McGill's robot competition among 135 students.  
 In teams of eight, we built an autonomous robot capable of finding and manipulating Styrofoam blocks, while navigating within an enclosed area populated with known obstacles placed within a 12' x 12' enclosure. Designed, organized the software architecture and coded in Java.

Fall 2016 **Chatbot**, Programmed a chatbot in python. Answers from the chatbot are based on a book provided.

Summer 2016 **Sweetknd.com**, Built a website selling handcrafted women's accessories with Shopify's API (transactions).

## Languages

○ French (Native) ○ English (Fluent)

## Technical skills

Languages JAVA, C, C sharp (C#), Python, JavaScript, Bash, PowerShell, CSS, HTML, Latex, Arduino, MatLab  
Softwares Git, Eclipse, Visual Studio, IntelliJ, Rider, Slack, AutoCAD, Inventor, Shopify, MatLab, Arduino  
OS Linux (Debian, Ubuntu, Kali), OS X, IOS, Android, Windows, Windows Server

## Volunteer Work

January 2013 **Costa Rica**, Painted, cleaned and restored a public school to provide an adequate learning environment for children.  
June 2011 **Canadian Cancer Society**, Transcribed and organized the registrations of all participants for the Relais pour la vie.