Tristan Saumure Toupin

8643 de Reims
H2P 2P6
Montreal, Canada
+1 (450) 807 1504
tristantoupin@gmail.com
Github: /tristantoupin
LinkedIn: /in/tristantoupin

EN/FR

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*, U3, Montreal.

2013–2015 **DEC Science de la Nature**, *Cegep de Valleyfield*, Salaberry-de-Valleyfield.

Experience

Summer 2017 **Nuance Communication**, *Software Developer Intern - Enterprise Division - R&D Nina Web*, Montreal.
Designed an internal tool for Nina Knowledge by extending a web application and creating a Chrome extension allowing the Sales team to build 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 **Zinc Électrolytique du Canada Limitée**, *Préposé aux cuves (Tanks attendant)*, 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 platform**, Programmed a bot in python capable of wisely following, liking and commenting Instagram posts depending on preferences previously adjusted by the user. Currently working on the UI (HTML,CSS,JS).

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 platform Heruku.

Spring 2017 **Google virtual assistant**, On the same day that Google released Google Assistant's API, I created my personal virtual assistant in python listening 24/7 to all my custom requests. Deployed on a Raspberry Pi 3.

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

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).

Technical skills

Languages JAVA, C, Python, JavaScript, Bash, PowerShell, CSS, HTML, C sharp (C#), OCAML, Latex, Arduino, MatLab

Softwares Git, Eclipse, Visual Studio, IntelliJ, Rider, Slack, AutoCAD, Inventor, Shopify, MatLab, Arduino

Competitions

Fall 2017 **ImplementAI Hackathon**, *Software*, **Winner** of Mcgill's Artificial Intelligence Society Hackathon.
Designed and developped a chatbot (Messenger's API) capable of natural language understanding (Nuance's Mix.NLU) and optical character recognition (OCR by Microsoft) saving contacts and events by sending a photo of business card or poster.

Fall 2017 **Microsoft Code Competition**, *Software*, Participated at Microsoft College Coding Competition at McGill.
Solved coding questions ranging from easy to hard that Microsoft's employees may encounter. In teams under time pressure.

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.