

# Lianne de la Salle

## Software Engineer

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### Profile

- Work Experience with Python, Django, Javascript, PostgreSQL, MySQL, QML, Git, Virtual Machines, Linux, Networking, Cyber Security, HTML, CSS, Matlab, Kanban, Jira, Redis, RabbitMQ, Docker
- Personal, academic, and hackathon experience with Node.js, React, Bootstrap, Meteor, Express.js, MongoDB, C, REST APIs
- Experience in private, public, and academic institutions
- Avid software developer and maker involved in community projects, open source, and self directed learning
- Fully bilingual, native French and English (written and oral)

### Education

Bachelor of Applied Science, Electrical Engineering (Magna Cum Laude), University of Ottawa 2017

### Work Experience

**Programmer  
Analyst,  
Application  
Development**  
July 2021 - Present

**Employer:** ESDC - Employment and Social Development Canada

Working with the Business Analytics Products and Platform Services team, I contribute to migrations of applications to the cloud as well as develop, automate, and support the software of ESDC intel clients.  
(Python, ArcGIS, Azure)

**Software Engineer**  
February 2021 –  
June 2021

**Employer:** CRTC - Canadian Radio-television and Telecommunications Commission

I contributed to the improvement and proper functioning of the CRTC's internal Django web application, the Spam Reporting Center. Working with a small team of developers, I implemented new features, fixed bugs, wrote automated tests, and ensured proper functionality of all components of the application. Meeting weekly with clients, I communicated effectively with them in order to better understand their needs.  
(Python, Django, Redis, Docker, RabbitMQ, MySQL, Jira, Git, Virtual Machines, Linux, Networking, Cyber Security)

**Software and  
Hardware Engineer**  
October 2018 –  
November 2019

**Employer:** CCX Technologies

Working with the small team at CCX Technologies, this diverse role included software design and testing, schematic and PCB design, and product build, verification, and testing. Contributions to the development of a cyber security and networking web application include frontend development, creating and resolving bug reports, building a features database, developing functional test cases, and automating processes.  
(Python, Javascript, Selenium, HTML, PostgreSQL, QML, Git, Virtual Machines, Arch Linux, EAGLE, Networking, Cyber Security, Wireshark)

**Technology  
Workshop  
Coordinator  
(CO-OP)**

**Employer:** University of Ottawa - Makerspace

As the Makerspace Workshop coordinator, I designed and facilitated workshops on a variety of technology subjects and equipment. This role included learning and developing

September 2016 – April 2017	workshops on new technologies including 3D printing, IoT, 3D modelling software, VR, among others. (Arduino, C, 3D printing, command line, Inkscape, Solid Works, laser cutting, soldering, troubleshooting)
<b>Software Developer and Research Assistant (CO-OP)</b> May 2014 – August 2016	<b>Employer:</b> University of Ottawa – SUNLAB Solar Research Lab As a research assistant in the SUNLAB, an advanced solar research group at the University of Ottawa, I worked on a variety of projects related to solar energy research. A large project, which resulted in two publications and a conference proceeding, entailed managing, processing, and analysing a five-year solar irradiance database. (Matlab, MySQL)
<b>Systems Engineer (CO-OP)</b> May 2013 – November 2013	<b>Employer:</b> General Dynamics Canada At General Dynamics, as part of the systems engineering and software test teams, I worked on system design documentation, analysed problem reports, and completed software test cases.

#### Awards :

- Professional Engineers of Ontario's Student Papers Night Best in "The Social, Environmental and Humanitarian Implication" Category
- 3rd Place in Pitch-an-App Contest 2017 by CREATE-BEST for App idea "Health Hood - Connecting low income people with community resources"

#### Personal Projects

<b>Web Application - Ski Instructor Lesson Planner</b> October 2020 - Present	I built a MERN stack web application for ski instructors to plan their ski lessons. <b>[Javascript, - MongoDB, Express, React, Node.js]</b> <a href="https://github.com/liannedls/ski_app">https://github.com/liannedls/ski_app</a> <a href="https://www.skilessonplanner.com/">https://www.skilessonplanner.com/</a>
<b>Website Landing Page</b> August 2019	<b>Client:</b> Ottawa Mental Health Friendship Support Group Organization Page As a volunteer project, I made a landing page for the Ottawa Mental Health Friendship Support Group. <b>[Javascript, HTML, CSS, Jekyll]</b> <a href="http://friendshipsupportgroup.ca/">http://friendshipsupportgroup.ca/</a>
<b>Application for non-profit</b> April 2019	<b>Client:</b> CompuCorps As part of the hackathon, Random Hacks of Kindness, with a team of volunteers, we built a Meteor application for the compuCorps website to better process donations. <b>[Javascript, HTML, CSS, Meteor, Bootstrap]</b> <a href="https://gitlab.com/compuCorpsmentoring/intap">https://gitlab.com/compuCorpsmentoring/intap</a>
<b>Let's Talk Science – Science Travels</b> March 2017 – June 2017	<b>Client:</b> Science Travels I facilitated the Makerspace-Science Travels partnership to enable the first technology workshops run with Science Travels. These workshops were arduino based and designed to introduce youth to coding and hardware. <b>[Arduino C]</b>
<b>REST API for Transport Canada Data</b> August 2020	I built a web application and RESTful API with Node.js and Express to fetch and process Transport Canada recall data and provide searching of the database. <b>[Node.js, Express]</b> <a href="https://github.com/liannedls/API_TransportCanadaVRD_NodeJs">https://github.com/liannedls/API_TransportCanadaVRD_NodeJs</a>