

# Lianne de la Salle

## Junior Software Engineer

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### Profile

- Work Experience with Python, Javascript, PostgreSQL, MySQL, QML, Git, Virtual Machines, Linux, Networking, Cyber Security, HTML, Matlab, Kanban
- Personal, academic, and hackathon experience with Node.js, React, Bootstrap, Meteor, Express.js, MongoDB, CSS, 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

**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)**

September 2016 –  
April 2017

**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 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)

**Software  
Developer and  
Research Assistant  
(CO-OP)**

May 2014 – August  
2016

**Employer:** 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)

**Protection Control  
Engineer (CO-OP)**  
January 2016 – April  
2016

**Employer:** Hydro One

As a protection and control engineer I worked primarily in the field, completing maintenance on testing instrumentation, updated engineering drawings to reflect field conditions, and addressed problems at various substations. I consistently applied rigorous safety standards when working in high voltage environments.

**Systems Engineer  
(CO-OP)**

May 2013 –  
November 2013

**Employer:** 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"

**Publications and Presentations :**

- Rentable solar power charging systems for low income users. 19th Photonics North Conference (2017) - Oral Presentation
- Assessment of shadowband correction using a complete ground measured irradiance dataset. 18th Photonics North Conference (2016) - Oral Presentation
- Multi-year ground-based irradiance dataset in a northern urban climate. 43rd IEEE Photovoltaic Specialists Conference (2016) - Conference paper, co-author
- Refractive concentrator optics architectures, tracker precision, and cumulative energy harvest. IEEE 42nd Photovoltaic Specialist Conference. (2015) Conference paper, co-author

**Personal Projects****Website Project**

August 2019

**Client:** 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. **[Javascript, HTML, CSS, Jekyll]**

<http://friendshippupportgroup.ca/>

**Application for  
non-profit**

April 2019

**Client:** 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. **[Javascript, HTML, CSS, Meteor, Bootstrap]**

<https://gitlab.com/compucorpsmentoring/intap>

**Let's Talk Science –  
Science Travels**

March 2017 – June  
2017

**Client:** 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. **[Arduino C]**

**Ski Instructor  
Lesson Planner**

October 2020 -  
Present

I built a MERN stack web application for ski instructors to plan their ski lessons.

**[Javascript, - MongoDB, Express, React, Node.js]**

[https://github.com/liannedls/ski\\_app](https://github.com/liannedls/ski_app)

**REST API for  
Transport Canada  
Data**

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. **[Node.js, Express]**

[https://github.com/liannedls/API\\_TransportCanadaVRD\\_NodeJs](https://github.com/liannedls/API_TransportCanadaVRD_NodeJs)