

# LANCE LAFONTAINE

<http://lancelafontaine.com> • <http://ca.linkedin.com/in/lancelafontaine> • <https://github.com/lancelafontaine>

## SUMMARY OF SKILLS AND QUALIFICATIONS

<b>Programming Languages</b>	Javascript • Java • PHP • MySQL • Python (beginner) • Assembly (beginner)
<b>Technologies</b>	Git • Node.js • jQuery • HTML5 • CSS3 • LaTeX • Jekyll • Markdown • MediaWiki
<b>Operating Systems</b>	Linux (Ubuntu, Arch) • Mac OS X • Windows 7 • Windows 8 • Chrome OS
<b>Software</b>	Eclipse • Sublime Text • Atom • ViM • VirtualBox • Microsoft Office • LibreOffice
<b>Other</b>	GitHub • StackExchange • Bioinformatics • 2D and 3D Molecular Modelling
<b>Languages</b>	English (written and spoken) • French (written and spoken)

## EDUCATION

### Bachelor of Engineering – Software Engineering 2014 - 2018 (Expected)

Concordia University, Montreal, QC

- Member of the Institute for Co-operative Education
- GPA: 3.73/4.30
- Relevant Courses: Object-Oriented Programming I and II, Web Programming, Statistics and Probabilities

### Bachelor of Science – Honours in Cell and Molecular Biology 2011 - 2014

Concordia University, Montreal, QC

- GPA: 3.91/4.30 - Graduated with Distinction, Golden Key Honour Society (2012) and Dean's List (2011, 2013)

### DEC in Pure and Applied Sciences 2009-2011

John Abbott College, Sainte-Anne-de-Bellevue, QC

## PROJECTS

### GitDeck.me (Personal) April 2015 - present

An open source project that creates quick and simple slide decks

- Allowing for users to produce slides with JSON data, HTML/CSS templates and a GitHub repository
- Implementing a system based on open source repositories with a focus on simplicity and speed
- Designing a front-end for the website <http://gitdeck.me> with HTML, CSS3, Bootstrap 3, and Javascript
- Creating an open source JSON and HTML-based parser on the back-end with Node.js and EJS

### Professional Website (Personal) November 2014-present

Website found at <http://www.lancelafontaine.com>

- Demonstrating a unique web presence using HTML5, CSS3, jQuery and Javascript web technologies
- Releasing the source code as open source on GitHub under the MIT license

### Pandacodium (Personal) May 2013 – August 2014

A 48-hour online hackathon focused on developing real-time applications

- Involved in the design, implementation and promotion of the online hackathon with three other teammates
- Contributed code to the website's backend written in Node.js using the Geddy web framework
- Judged 10 project submissions based on their ingenuity, completeness and potential

## WORK EXPERIENCE

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### Web Developer and Team Advisor

May – October 2014

International Genetically Engineered Machine Synthetic Biology Competition, Concordia University, Montreal, QC

- Created the project wiki (<http://2014.igem.org/Team:Concordia>) with HTML5, CSS3 and MediaWiki technologies
- Received a silver medal due to the project's presentation of its research in biotechnology
- Organized and worked in the team's Technology and Media group

### Scientific Researcher

September 2013 – May 2014

Dr. Varin Research Laboratory, Concordia University, Montreal, QC

- Received A+ for my undergraduate thesis "Computational Design and Experimental Testing of Biological Logic Gates with Synthetic Ribozymes" by providing new research in the bioinformatics and synthetic biology fields
- Applied software tools such as multiple alignment of sequences and 2-dimensional folding analyses
- Performed statistical analyses of data and self-designed lab experiments in a limited time frame

### Team Member and Researcher

May – November 2013

International Genetically Engineered Machine Synthetic Biology Competition, Concordia University, Montreal, QC

- Received a bronze medal our project Comput-*E.coli*, in which the team designed, researched and implemented a biological cellular automaton created with genetically-modified *E.coli*
- Worked in a leadership role as a part of the Science and Engineering team

### Technology Specialist and Sales Associate

October 2012 – present

Bureau En Gros, Montreal, QC

- Received the Inspired Technology Associate Award in October 2013 and April 2015 for my knowledge of products and for providing the ideal technology solutions to customers.
- Configuring and repairing laptops, desktops, tablets and smartphones running technologies like Windows, Mac OS X, Android, iOS and more

### Certified Shift Manager

June 2009 – April 2012

McDonalds, Beaconsfield, QC

- Received the Employee of the Month award for January 2010
- Managed approximately 10 staff members to efficiently provide the best service to customers
- Was promoted to Shift Manager after 6 months of working due to my initiative and work ethic
- Accounted for business analyses and paper such as labour costs, product sales and daily profits

## SCIENTIFIC PUBLICATIONS

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[1] N. Kharma, **L. Lafontaine** and R. Fenster. "*Biofuels are Not the Full Answer, but They Can Be Part of a Solar-Oriented Solution to Our Energy-Climate Dual Crisis*" in International Journal of Renewable Energy and Biofuels. IBIMA Publishing. Accepted in October 2014.

## INTERESTS

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**Data Analysis and Artificial Intelligence:** Applications of machine learning to research and business

**Open Source Technologies:** Use of free and open source technologies wherever possible in order to make computer science and technology accessible to everyone

**Informatics in Life Sciences:** Use of software to solve complex theoretical questions in biology and chemistry

**Others:** Music, science-fiction, StackExchange sites, board games, biking, camping, animals, and much more