

Paul Le

McMaster Graduate

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Skills

HTML5 (Pug, Jekyll)	C/C++ (OpenMP)	GIMP
CSS3 (Bootstrap, SASS/SCSS)	Python (PyGame, NumPy, SciPy,	Linux
Javascript (jQuery)	Matplotlib)	Windows
LaTeX	Matlab	Wordpress
Microsoft Office Suite	Git (Github)	R

Projects

Free Code Camp Front End Development Projects

June 2016 - Present

- Projects are all hosted on <http://codepen.io/LeNPaul/>
- Currently working on Front End Development Certificate at FreeCodeCamp.com
- Involves the completion of a number of independent front end development projects, including:
 - ◆ Random quote generator that fetches quotes using a public API
 - ◆ Weather app that estimates location through IP address, and uses an API to get weather data
 - ◆ Wikipedia article finder that uses their API to find article data
 - ◆ Twitch TV streaming status app that checks if a certain user is online and streaming through the Twitch API
 - ◆ Currently working on a calculator, to do list, pomodoro timer, and data visualization projects through Free Code Camp

Cancerous Tumour Simulation

November 2016 - December 2016

- Built a program in Matlab simulating how a tumor propagates through space, and how its population evolves over time
- Utilizes the degenerate heat equation in combination with the Lokta-Volterra equations for population dynamics, implementing the fourth-order Runge-Kutta algorithm

Jekyll Website Theme for Blogging

July 2016 - August 2016

- Created a custom website template built from scratch using HTML5, CSS3, and Javascript, for use with Jekyll, a static website generator created by Github
- GitHub repository has over 50 forks and 25 stars

Experience

Intern

McMaster Industry Liaison Office

Hamilton, Canada
July 2015 - May 2016

- Involved in the patent application process for a variety of science and engineering patents.
- Performed prior art evaluations for potential science and engineering related patents, which involved extensive background research on past patents, research publications, and other relevant material in order to determine patent novelty and potential
- Wrote technical reports outlining findings and offering suggestions
- Conducted market research in order to gather information on companies that may potentially be interested in a patent, and whether or not a patent would ultimately be profitable

President of Internal Affairs

McMusic Together

Hamilton, Canada
May 2015 - May 2016

- Responsible for organizing, planning, delegating, and supervising workshops and private lessons for one of the largest music clubs ratified by the McMaster Student Union.
- Ensured that student-teacher pairings are done in a timely manner, and that lessons are occurring regularly, as well as ensuring workshops are being developed and run regularly.
- Resolved conflicts are resolved in a timely manner
- Coordinated events with other clubs, and promoted the growth of the club, through the implementation of the volunteer performance committee

Education

McMaster University

Bachelor of Science, Physics

Hamilton, Canada
Fall 2012 - Spring 2016

- **Relevant courses:**
 - ◆ Computational Physics - implementing efficient algorithms for solving complicated problems in physics
 - ◆ Mathematical Modelling - computational and mathematical techniques for modelling a wide variety of processes
 - ◆ Scientific Computing - methods including algorithms, data structures, and OOP, using C++ under Linux
 - ◆ Astrophysics Data Analysis - project based course involving data analysis of large astronomical datasets

Independent Studies

Free Code Camp

Front End Development Certificate

FreeCodeCamp.com
Summer 2016 - Present

- Projects done through Free Code Camp can be found on <http://codepen.io/LeNPaul/> (see Projects for more detail)
- Personal portfolio found on <https://lenpaul.github.io/>

Harvard CS50x

Introduction to Computer Science

cs50.harvard.edu
Summer 2016 - Present

- Currently working on completing curriculum for Harvard University's CS50x course, the MOOC version of their popular introduction to computer science course
- Topics include abstraction, algorithms, data structures, encapsulation, resource management, security, software engineering, and web development
- Cumulates in a final project to demonstrate learned topics, with is up to the discretion of the student

Khan Academy

Introduction to Algorithms

KhanAcademy.org
Summer 2016

- Completed the introduction to algorithms course created by Tom Cormen (author of Introduction to Algorithms, also known as CLRS), and Devin Balkcom
- Topics included algorithms, searching, sorting, recursion, and graph theory
- Involved a combination of articles, visualizations, quizzes, and coding challenges

Codecademy

Codecademy.com
Summer 2015 - Summer 2016

- Completed the Python, Javascript and AngularJS courses
- Completed most of the HTML & CSS, SASS, Git, and SQL courses