

David Lougheed

Undergraduate Student, McGill University

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Education

- 2015 - **B.Sc.**, *McGill University*, Montreal, QC, *Fourth Year (Ongoing)*.
Present Joint Honours, Biology and Computer Science. CGPA as of sixth semester: 3.93.
- 2011 - 2015 **High School**, *Loyalist C. V. I.*, Kingston, ON.

Work Experience

- May 2018 - **Junior Software Developer**, *McGill University and Genome Quebec Innovation Centre*, Montreal, QC.
Present Summer position developing web applications with complex data visualization and performing bioinformatic analyses.
- 2015 - 2017 **Developer**, *Queen's University Biological Station*, Kingston, ON.
Development of rich content apps, complex CMS-based websites, and data processing utilities. Short term contract: July-August 2015, May-August 2016, June-August 2017.

Recent Volunteering Experience

- Dec. 2017 - **Web Team Leader**, *McGill Science Computer Task Force*.
Present Leader of a team of 12 people. Organize and lead development on several projects including data visualization utilities and web applications.
- Feb. 2017 - **Member**, *McGill Science Computer Task Force*.
Present Development of web apps, including an online election system, and GNU/Linux server administration.
- Sept. 2015 - **Member**, *McGill Robotics*.
Jan. 2017 Lead the development of a front-end interface for annotating video frames used for computer vision training.

Programming & Markup Languages

- Python Proficient, especially with data processing and web development. Experience with the Flask and Django frameworks, and with `numpy`, `SKLearn`, `PyTorch`, and `Keras`.
- JavaScript Proficient, including experience with NodeJS. Experience with D3, JQuery, React, and Express frameworks.
- HTML, CSS Proficient, especially in modern HTML5 and CSS.
- C, C++ Experienced. Knowledge of Boost framework (C++).
- Java Experienced. Some experience in Android app development.
- LaTeX Experienced.
- R Some experience, mostly with data visualization.

SQL Some experience, especially in PostgreSQL, MySQL, and SQLite dialects.
Swift Some experience, specifically with iOS app development.
Bash Some experience, mostly with server administration and basic automation.

Other Technologies

Office Software Proficient with Microsoft Office and Google Docs products; some experience with LibreOffice.
Linux Server Admin. Experienced. Have run my own VPS hosting multiple client websites since 2011.
Arduino Some experience. Have built and programmed small waterproof data loggers for an academic project.

Achievements

Feb. 2018 **Best Project Without Using External APIs**, *McHacks Hackathon*, Montreal.
Wrote code for real-time signal generation and processing, used for digital sound synthesis, in Python using a directed-graph network.

Jan. 2017 **Third Place Team**, *McHacks Hackathon*, Montreal.
Did data processing and web application development in Python and Node.JS for a neural net-powered Facebook chatbot.

Feb. 2016 **Top 10 Team**, *McHacks Hackathon*, Montreal.
Did all programming of a chat web application.

Jun. 2014 **Bronze Medal**, *Skills Canada National Competition*, Toronto.
Web design and development competition, both back- and front-end.

May 2014 **Gold Medal**, *Skills Ontario Competition*, Waterloo.
Web design and development competition, both back- and front-end.