LAURENCE LIANG

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Passionate about making society better through technology.

Skills

Artificial Intelligence

From neuroscience research projects to Expedia Group, I have used machine learning libraries including Scikit-Learn and Keras in diverse projects.

Software Development

I have extensively used Python in multiple projects, ranging from machine learning models to web development (HTML/CSS) for SickKids' hospital's Emergency Department. I have also experience with Java and JavaScript.

Work experience

Software Developer

The Hospital for Sick Children

August 2018 - Present

I worked with a team at North America's second-largest pediatric hospital to use AI to optimize Emergency Department work efficiency. We developed a website that allows doctors to monitor and track their work at any given time.

Software Development Intern

Expedia Group

June 2018 - August 2018

As part of Expedia's Worldwide Engineering Team, I contributed in developing an internal tool that allows Expedia Group to effortlessly analyze the quality of its textual content on its web pages and to recommend alternatives to enrichen quality. This internal tool is currently in the process of being deployed.

Machine Learning Developer

McGill University

April 2017 - Present

I have worked under the supervision of Professor Joseph Vybihal as part of the Prometheus Project, an initiative to develop next generation intelligent systems. I contributed in writing code for the convolutional neural network layer as well as the database for its memory based algorithm. In addition, under the supervision of Dr. Sébastien Tremblay, PhD, I worked on a research project where I developed AI models that were able to generalize biological neuron activity.

Education

High School
Collège Jean-de-Brébeuf
2014 - Present
At one of the top schools in Québec, I scored my class' top cumulative average for the past 3 years. I received multiple awards throughout my stay, including the Distinction Brébeuf, an award highlighting a balanced pursuit in academic and social excellence, as well as the Parents' Association Leadership Award and twice its Civility Award.

As of my activities, I was Editor in Chief of the school's English newspaper, overseeing a team of 40 peers, as well as a former class President and elected class Councillor for 4 semesters. I initiated my high school's first hackathon, am a proud mentor on the robotics team and co-lead its Coding Club.

Projects & Activities

Hackathon Contender and Organizer
BrebeufHx
2017 - Present
I have participated in multiple hackathons, notably coming runner-up at HackerFest 2017 and winning first place with my team at MariHacks 2018. I also initiated BrebeufHx, my high school's first hackathon and one of the first pre-university hackathons in Québec.

Current Member of the Liberals' Constituency Youth Council
Liberals Canada
2017 - Present
I am a member of my riding's youth council. We discussed political issues during our regular meetings, and have helped volunteer at events for the Liberals and Eco-Quartier.

National Science Fair Bronze Medalist
Youth Science Canada
2016 - Present
I presented my project at the national level at the 2018 Canada-Wide Science Fair. I used Artificial Neural Networks to reproduce the behaviour of biological neurons, which I used to create a proposed AI model that integrated brain-derived elements. I was awarded a Bronze Excellence Medal as well as scholarships to Western University and Université de Sherbrooke.

Competitive Fencer
Les Dynamiques de Brébeuf
2014 - Present
Top 8 in Québec for my category for the last 2 years, I received a nomination by my school for the athlete of the year of 2018 and am a two-time recipient of The Most Improved Fencer Award Per Category by my club.

Math Competitions
2012 - Present
Five-time AQJM provincial finalist, I have participated in multiple math competitions, notably ranking 1st in Québec for my category in the Canadian Mathematical Society's COMC in 2017 and 3rd provincially in Opti-Math in 2016.