

# Adrien Trahan

[cv@adrientrahan.com](mailto:cv@adrientrahan.com) | French & English (C1)  
[github.com/adrientrahan](https://github.com/adrientrahan) | [adrientrahan.com](http://adrientrahan.com)

## EDUCATION

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|--|---------------------------------------|
| • Software Engineering - Polytechnique Montreal - University <b>(GPA of 3.84 /4)</b>   | <b>2023 to Present</b><br>(2025/2026) |
| ↳ Politecnico di Torino (Turin, Italy) - student exchange of 2 semesters               |                                       |
| ↳ Concentration in Artificial Intelligence & Data Science                              |                                       |
| • Natural Sciences - Collège Bois-de-Boulogne - CEGEP <b>(final R score of 33.937)</b> | <b>2021 to 2023</b>                   |
| • Collège Saint-Sacrement - High School <b>(final average of 91%)</b>                  | <b>2016 to 2021</b>                   |

## SKILLS

- Proficient with Python, JS, React, Sveltekit, CSS Styling, Swift, MongoDB
- Experience with PyTorch, C++, Java, PostgreSQL, Microsoft SQL Server, Git
- Additional: Strong problem-solving skills & quick learning abilities

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## EXPERIENCE – COMPUTER SCIENCE RELATED

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| <b>Software Development Intern – Ivado Labs (2025)</b>   | <b>2025</b>          |
| • Built data aggregation pipelines for AI model training   |                      |
| • Automated execution scripts in a Databricks environment  |                      |
| • Designed robust and maintainable object-oriented structures  |                      |
| <b>Web Development Intern – Thirdbridge</b>  | <b>2024</b>          |
| • Developed web pages using <i>React, GatsbyJS, and Payload CMS</i> .  |                      |
| • Participated in code review and evaluation processes as both a reviewer and reviewee.  |                      |
| • Collaborated with clients to gather feedback and make iterative adjustments.   |                      |
| <b>Business Intelligence Intern – L3HARRIS</b>   | <b>2022 and 2023</b> |
| • Managed <i>Microsoft SQL Server</i> databases, executed data integration   |                      |
| • Led the development and migration of Power BI dashboards.  |                      |
| • Collaborated with clients from different locations to address their needs.   |                      |
| <b>La Machine – Technical Society</b>  | <b>2023 to 2024</b>  |
| • Implemented an AI-based object recognition and positioning system to automate the movement system for the “Jeux de génie” competition. |                      |
| <b>IT Security Team – Ethical Hacking Club</b>   | <b>2021 to 2022</b>  |
| • Engaged in discovering and addressing modern vulnerabilities to enhance cybersecurity.   |                      |
| <b>Programming team leader FRC – Droide 5865</b>   | <b>2019 to 2021</b>  |
| • Led a programming team in designing clean and structured Java code for FRC team projects, ensuring timely delivery.                    |                      |
| • Competed at FIRST tournaments in Montreal and New York, qualifying for the 2019 FIRST World Championship in Detroit, MI.               |                      |
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## PROJECTS & PERKS

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|---|-------------|
| <b>Matic – Flexible Website builder (Work in Progress)</b>  | <b>2024</b> |
| • A service to collaboratively build websites using drag-and-drop capabilities  |             |
| • Sandbox to allow custom plugin integration  |             |
| • Allows for custom components  |             |
| ↳ Repo: <a href="https://github.com/AdrienTrahan/Matic">https://github.com/AdrienTrahan/Matic</a> - Stack: <i>Svelte, Node, PostgreSQL</i>    |             |
| <b>Forward Forward Algorithm Implementation</b>   | <b>2023</b> |
| • Built an AI library based on Geoffrey Hinton’s Forward Forward Algorithm.   |             |
| ↳ Repo: <a href="https://github.com/AdrienTrahan/ForwardForward">https://github.com/AdrienTrahan/ForwardForward</a> - Lang: <i>TypeScript</i> |             |

<b>SportsZone – Full-Stack Project</b>	<b>2020 to 2021</b>
<ul style="list-style-type: none"> <li>Developed a comprehensive sports platform accessible via Android, iOS, and website interfaces.</li> </ul>	
↳ Repo: <a href="https://github.com/AdrienTrahan/SportsZone">https://github.com/AdrienTrahan/SportsZone</a> – Stack: <u>Angular Ionic, Node, MongoDB</u>	

<b>Row Jumper</b>	<b>2015</b>
<ul style="list-style-type: none"> <li>Built an iOS app and published it on the App Store (at 11 years old)</li> </ul>	

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## EXPERIENCE – SCHOOL RELATED

<b>VP Communications – Software Engineering Student Committee (<i>Elected</i>)</b>	<b>2024 to 2025</b>
<ul style="list-style-type: none"> <li>Managed social media, drafted meeting minutes, and communicated key information to ensure the visibility and protection of CEGInfo's brand image.</li> </ul>	
<b>VP Integration – Software Engineering Committee</b>	<b>2023 to 2024</b>
<ul style="list-style-type: none"> <li>Served as a connection between new students and the school administration, and ensures their seamless integration into the institution.</li> </ul>	
<b>FOUNDER – SOCIOBDEB</b>	<b>2022 to 2023</b>
<ul style="list-style-type: none"> <li>Founder of a committee that creates events with over 500 attendees for Collège de Bois-de Boulogne.</li> </ul>	

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## AWARDS & MENTIONS

<b>Mention of excellence – PolyMTL</b>	<b>2024</b>
<b>1st position at the Computer Science Games</b>	<b>2024</b>
<b>Judges' Favorite Award</b> Received at HACKATOWN 2020 by PolyHx	<b>2020</b>
<b>Hackathon Winner</b> Won first place at Polytechnique Montreal with Collège Saint-Sacrement	<b>2019</b>
<b>1st place at Polytechnique's Summer Programming Camp</b>	<b>2018</b>
<b>Hackathon Winner</b> Won first place at Polytechnique Montreal with Collège Saint-Sacrement	<b>2017</b>

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## FIELDS OF INTEREST

In the little free time I have, I enjoy taking part in both individual and team sports (community hockey team, college badminton team, athlete of the year), playing the piano, and traveling (Morocco, Vietnam, China, Ireland, France, Germany, Italy, the Netherlands, Czech Republic, Malta, Canada, and the United States).

References are available upon request.