

# William Caron-Bastarache

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## EDUCATION

<b>Université de Montréal</b> <i>B.Sc. in Computer Science (Expected 2027)</i>	Montréal, QC 2024 – Present
• Relevant coursework: Software Engineering, Algorithms & Data Structures, Theory of Computation, Probability & Statistics, Economics	
<b>Cégep Édouard-Montpetit</b> <i>Business Administration with Mathematics</i>	Longueuil, QC 2021 – 2024
<b>École internationale Lucille-Teasdale</b> <i>High School Diploma</i>	Brossard, QC 2016 – 2021

## TECHNICAL SKILLS

**Programming:** Java, Python, Bash, HTML/CSS  
**Familiar with:** SQL, C, NumPy, Pandas, scikit-learn, JavaScript/TypeScript (React, Next.js)  
**Tools:** Git, GitHub, GitHub Actions, Linux, Power BI, Docker, Maven, IntelliJ, VS Code, LaTeX  
**Languages:** French (native), English (fluent), Spanish (basic)

## PROJECTS

<b>MaVille</b>   <i>Java, Maven, REST, CLI App</i>	2025
• Developed a municipal management system with persistence, user profiles, notifications, and API integration.	
• Implemented resident/contractor features and data persistence (CSV/JSON).	
• Added automated testing with JUnit.	
<b>Software Testing &amp; CI Quality Gate (GraphHopper)</b>   <i>Java, JUnit, JaCoCo, PIT, GitHub Actions</i>	2025
• Designed and implemented targeted unit tests on core utility classes to improve code robustness.	
• Measured test coverage before/after using JaCoCo and evaluated fault detection with mutation testing (PIT).	
• Built a CI quality gate in GitHub Actions that fails builds on mutation score regression using a persisted baseline.	
• Automated CI reporting with persisted baselines to prevent quality regressions across builds.	

## EXPERIENCE

<b>Lifeguard</b> <i>City of Brossard</i>	2022 – Present Brossard, QC
• Ensured safety and responded to emergencies in high-traffic pools.	
• Developed teamwork, communication, and crisis management skills.	
<b>Nightshift Receptionist</b> <i>Hotel Labelle</i>	2024 Montréal, QC
• Managed front-desk operations during night shifts, ensuring safety and service continuity.	
• Strengthened organizational and communication skills in a high-responsibility role.	
<b>Volunteer Experience</b> <i>Various Organizations</i>	2016 – 2021 Brossard, QC
• Assisted with school renovations, fundraising campaigns, and event preparation.	

## CERTIFICATIONS

National Lifeguard Certification (Pool) – Société de Sauvetage

Red Cross First Aid (16h)

## INTERESTS

Artificial Intelligence, Statistics, Finance, Software Development, Open-source software, Fitness