

Jerry Fu

Software Developer

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References available upon request!

Experience

2022-2025+ FIRST Robotics Competition - Programmer

- **Programmer** for Team 3990, Tech For Kids. Demonstrated coding and problem-solving skills in international competitions like FIRST Robotics Competition and FIRST Tech Challenge.
- **Initiated** implementation of object detection on the robot, for the first time in the team's 13-year history. I was able to apply machine learning with our custom synthetically generated dataset.
- I am collaborating to completely remake our team's programming courses for next year to enhance their quality and engagement.
- I am solely preparing an extensive course on **artificial intelligence** for our robotics team and anyone else at our school.

2023, 2024 DODO Wheels - Sole Software Engineer

- 2024 summer | Contracted to develop Double Star Tire's Canadian website (partner), mainly involving front-end development and its management.
- 2023 summer | Worked on updating the website's internal inventory, which involved updating and adding entries to ensure accurate values (not software development, but was my first official job).

2024 HackQC 2024 - Participant, developer

- HackQC is a hackathon utilizing Quebec Open Data to develop community-improving solutions. Throughout the competition, we worked with OpenAI LLMs and LangChain.

2023, 2024 Volunteering - Collège Regina Assumpta

- Presented our robotics program at our school's open day. Assisted the FIRST volunteers following a competition.

Skills

Programming Languages

- Javascript, NodeJS: projects (4 years)
- ReactJS, HTML, S/CSS: web dev (2 years)
- Java: robotics, projects (3 years)
- Python, Pytorch: AI/ML, robotics (< 1 year)
- C#, C, C++: learning

Distinctions

- Developed and managing my own website
- Worked extensively with DiscordJS API, feature-rich bots
- Worked with Azure, Cloudflare, DigitalOcean, WPILib
- Game modding (Minecraft Forge)
- Collaborated on other smaller coding projects

Education

2020-2025 Collège Regina Assumpta - Secondary school (QC)

- Secondary 5 (Grade 11) in August, enrolled in advanced math and science (SN and Phys+Chem), Enriched English, and Robotics extracurriculars.

Languages

- French: Fluent
- English: Proficient
- Mandarin: Spoken
- Spanish: Beginner