

# Youssef Ouarad

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Software Engineering graduate, passionate about tech, math, financial markets, and sports with IB background, 150+ hours of volunteering. Aspiring Product Manager. Learn more about me and my projects [here](#).

## EDUCATION

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### Polytechnique Montreal

Graduation 2025

B.Eng. in Software Engineering, Minor in CyberSecurity

Montreal

- **GPA: 3.4/4.0; Cum Laude**; Polyfinance, Polyhack

## WORK EXPERIENCE

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### Thales

Sep. 2024 – Aug. 2025

Software Engineer, Technical Lead (Part-time → Full-time)

Montreal

- **Lead technical design** and architecture for a 3-person engineering team. Defined the tech stack, designed scalable systems, and ensured delivery of key milestones.
- Modernized legacy tools with full-stack development (Go, MEAN stack), improving portability and experience.
- Deployed high-performance Go microservices for concurrent processing and API management.

### LUDO

Jan. 2025 – May. 2025

Full-Stack Developer and Data Analyst (Co-Op)

Montreal

- Built a web dashboard for managing and analyzing mobile app data to improve user participation.
- Performed **data analysis** on participation trends, driving event optimization and engagement gains.
- Implemented backend data layers and **AI workflows** for automated support, team generation, and fraud detection.

### Thales

May. 2024 – Aug. 2024

Software Engineer, Test Means and Avionics Tools (Intern)

Montreal

- Developed an Electron-based Virtual Testing Bench (VTB) to improve product testing UX.
- Integrated physical test rig components into the VTB to unify virtual and physical testing workflows.
- Automated package deployment with a Python-based script for Artifactory, improving DevOps efficiency.

## PROJECTS

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- **Cross-Platform Multiplayer Guess The Difference:** Full-stack mobile and desktop multiplayer game with real-time gameplay, user authentication, and cross-platform support using modern web technologies.
- **Web Multiplayer Quiz App:** Real-time multiplayer quiz application with scalable backend architecture, deployed on AWS with modern DevOps practices.
- **Autonomous Robot Car:** Embedded systems project featuring autonomous navigation, sensor integration, and real-time decision making using C++ and various sensors.
- Many more projects and more detailed info and source code on my [website](#) or [GitHub](#).

## SKILLS & INTERESTS

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- **Languages & Frameworks:** C++, Python, Java, JavaScript/TypeScript, React, Angular
- **Technologies:** AWS, Azure, Docker, Kubernetes, CI/CD, Git
- **Interests:** Sports, Financial Markets, Mathematics, World News