# LOUAY DRIDI

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## TECHNICAL KNOWLEDGE

**Libraries/Frameworks** │ ReactJS, NextJS, NodeJS, PostgreSQL, Flask, OpenCV, NumPy, Pygame

**Programming** │ C++ • C# • Java • Python • HTML • CSS • JavaScript

**Languages** │ French -fluent • English – fluent • Arabic – fluent

## PERSONAL PROJECTS

**Portfolio Website** | *Website* | *Source Code*
- Designed a responsive personal website to showcase projects and skills using **HTML**, **CSS** and **JS**.
- Developed a live **email contact form** using **Node.js** backend, hosted on **Render**, with secure environment variables and Gmail API integration.
- Implemented AJAX form submission with client-side validation, ensuring seamless UX.
- Configured automatic deployment of the frontend using **GitHub Pages**, and backend via **Render cloud hosting**, allowing 24/7 uptime without relying on local machine

**Face Recognition** | *Source Code*
- Identifying or confirming an individual's identity using their face using **OpenCV** and **KNN** algorithm.
- Save, label, and manage facial data for future recognition with features for tracking recognition.

**Chess Game** | *Source Code*
- Created a functional turn-based chess game with move validation and an intuitive UI using **Java**.
- Developed features like en passant, castling, and dynamic game state management.

**Flappy Bird Clone And Snake Game:** | *Source Code for Flappy Bird*  *Source Code for Snake*
- Built a physics-based game with collision detection using **java**.
- Developed a classic Snake game using **Pygame** in **Python**.

## WORK EXPERIENCE

**TUTOR**                                                                      **June 2023 - Jan 2024**
Tutorax, Laval, Québec
- Teaching effective study techniques, time management, and organizational skills
- Providing constructive feedback on students' work and areas for improvement
- Employ critical thinking strategies to deepen student understanding and problem-solving skills
- **Core Competencies:** Problem-Solving Skills, Analytical Thinking, Subject Matter Expertise

## EDUCATION

**Bachelor of Engineering – Software Engineering Co-op**                        **2024 - 2028**
Concordia University, Montreal, QC
- GPA: 4.12 / 4.3
- Relevant Courses: Web programming, Data structures and algorithms, System Hardware