

# Yasin Patel

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## EDUCATION

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### Université de Montréal

Bachelor of Arts and Science in Computer Science

Montréal, QC

Sep. 2024 – May 2027

### Vanier College

DEC in Social Sciences & Math

Montréal, QC

Aug. 2021 – May 2024

## PROJECTS

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### SkinFast | *Next.js, TypeScript, React, Tailwind CSS, Node.js, SQLite, REST APIs*

May 2026

- Built a **full-stack web application** for CS2 skin price lookup and tradeup optimization using **Next.js 14**, **TypeScript**, and **Tailwind CSS**, serving real-time pricing across **21,000+ items**.
- Engineered **Node.js web scrapers** for Steam Community Market **REST APIs** with **rate limiting**, exponential backoff, and resume capability; integrated third-party **JSON APIs** to populate a normalized **SQLite database** with 1,500+ skins and 15,000+ variants.
- Designed a **tradeup optimization algorithm** that computes expected value and cost-per-attempt across input combinations, leveraging **probability modeling** and **greedy search** to surface the most cost-effective contracts.
- Implemented **server-side caching**, background price refresh jobs, and **indexed SQL queries** to deliver sub-50ms search responses and minimize external API load.

### Rivals! | *React Native, TypeScript, Supabase, Python, Riot Games API*

Nov. 2025

- Developed **cross-platform mobile app** with **real-time stat comparison**, leaderboards, and gamification features using **React Native**, **TypeScript**, and **Supabase**.
- Designed **scalable data pipeline** in **Python** using **BFS traversal** to recursively discover and populate **100K+ players** across regions, implementing rate limiting and error handling for **Riot Games API** integration.
- Implemented custom **impact score ranking algorithm** with weighted metrics and architected **database schema** supporting user authentication, player profiles, and match history storage.

### ML Facial Expression Recognition | *Python, TensorFlow, NumPy, Pandas*

Oct. 2025

- Designed and deployed a **CNN-based** facial expression recognition system trained on grayscale facial images.
- Implemented **image preprocessing pipelines** including resizing to  $48 \times 48$ , grayscale conversion, and **tensor normalization**.
- Reached **80% accuracy** by tuning **hyperparameters**, batch sizes, and model architecture.
- Automated inference and submission generation by mapping image IDs to predictions and exporting structured CSV outputs.

### Roast-Me! | *HTML, CSS, JavaScript, Python, OpenCV, Dlib*

Feb. 2025

- Developed an **AI-powered web app** that delivers real-time personalized responses driven by **computer vision** and **generative AI**.
- Built a **real-time facial recognition pipeline** using **OpenCV** and **Dlib** to extract facial landmarks and demographic features from live webcam input.
- Orchestrated **multi-API integration** with the **OpenAI API** for prompt-engineered text generation and the **ElevenLabs API** for AI voice synthesis, returning end-to-end responses in under 3 seconds.

## EXPERIENCE

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### Customer Service Rep.

June 2023 – Present

IKEA

Montréal, QC

- Resolved customer inquiries and processed an average of **70+ returns daily**.
- Managed **real-time inventory updates** using IKEA's proprietary software.

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Python, Java, SQL, HTML/CSS

**Frameworks and Libraries:** React, Next.js, React Native, Node.js, Tailwind CSS, TensorFlow, NumPy, Pandas, OpenCV, Dlib

**Databases :** PostgreSQL, MySQL, SQLite, Supabase

**Developer Tools:** Git, GitHub, Docker, VS Code, npm

**Concepts:** REST APIs, Object-Oriented Programming, Data Structures, Algorithms, Web Scraping, Agile