

# Vraj Patel

✉ patelvn231@gmail.com | ☎ (514) 581-0343 | [in](#) LinkedIn  
[GitHub](#)

## SUMMARY

Aspiring Software Engineer with expertise in full-stack development, embedded systems, and database management. Proficient in Python, JavaScript, and Agile practices, with a proven track record of delivering scalable and efficient solutions. Experienced in working with diverse teams, implementing innovative projects, and enhancing product quality through automation and testing.

## EDUCATION

**Bachelor of Engineering – Software Engineering**

Winter 2020 – Winter 2025

Concordia University • Montreal, QC

GPA: 3.31

**Relevant Coursework:** Software Testing, Verification and Quality Assurance, Data Systems for Software Engineers, Data Structures & Algorithms, Artificial Intelligence.

## SKILLS

**Primary Stack:** React.js, Node.js, JavaScript, Python, Java, SQL (PostgreSQL), C#

**Frameworks/Libs:** LangChain, Streamlit, Hugging Face, Bootstrap, WordPress

**Methodologies:** PostgreSQL, NoSQL (MongoDB), Neo4j

**DeveOps & Tools:** Docker, Git/GitHub, TestComplete, VS Code, Agile (Scrum/XP)

## EXPERIENCE

**Software Developer (Intern)**

May 2022 – December 2022

Siemens, Montreal

- Developed and maintained automated test scripts (**Python, C#**), reducing manual regression testing time by **30%** for Simcenter products.
- Engineered developer tools including a VM management utility (**C#/.NET**), streamlining internal testing setup and reducing overhead.
- Integrated within an **Agile Scrum team**, actively collaborating on CI/CD processes and deployment alongside core development.
- Validated critical features and bug fixes to ensure robust software releases, maintaining production standards for product reliability.

## PROJECTS

**TrackMyDegree** (Winner of **Instructional Technology Award**)

Concordia University

September 2024 – April 2025

- Led full-stack development of a degree tracking app using **React.JS, Node.js, and SQL** for progress monitoring and course planning.
- Implemented **two-factor authentication (2FA)** using React libraries to significantly enhance data security and user privacy.
- Leveraged **Docker** for containerization to standardize development environments and simplify deployment pipeline.

**SmartClass A.I. assistant**

Concordia University

May 2024 – July 2024

- Developed an AI system to classify facial expressions, achieving **85% accuracy** in image emotion detection for student engagement.
- Designed and trained a **CNN** using **PyTorch**, utilizing Google CoLab for efficient model training and validation.
- Conducted bias analysis using **Scikit-learn** and k-fold cross-validation to enhance model fairness and robustness.

**Condo Management Website**

Concordia University

January 2024 – April 2024

- Developed and launched a web platform for condo service management (**React.JS, SQL**) including rent and maintenance tracking.
- Built a comprehensive user profile management system to enhance accessibility for residents and administrators.
- Implemented intuitive features for profile creation, validation, and updates to ensure a seamless user experience.

## CERTIFICATIONS

**Python**

Hacker Rank

**Java**

Hacker Rank