ALEXANDRE MARMEN

1450 rue Parthenais ◇ Montréal, Québec

(438) · 377 · 7679 ◇ alexandremarmen@gmail.com

Web portfolio: https://portfolio-git-main-m4rmens-projects.vercel.app/

TECHNICAL SKILLS

Programming Languages	TypeScript, JavaScript, C, C++, Python
Protocols & APIs	XML, JSON, SOAP, REST
Databases	NoSQL, MySQL, PostgreSQL, Microsoft SQL
Frameworks	React, Angular, Node.js, Next.js, Express

EXPERIENCE

Ultrapark Science and Technology Center   May 2024 - August 2024
Web Software Developer — Intern   *Costa Rica*

· Designed and developed a user registration system to streamline gym membership processes
· Created intuitive mobile/desktop interfaces using ReactJS & NodeJS
· Developed a solution that significantly reduced human errors related to data transcription.
· Implemented containerized MSSQL database servers using Docker
· Collaborated with stakeholders on legal/functional requirements

Polytechnique Montréal Final Project - Alta Robotics   January 2025 - May 2025
Distributed Systems Developer   *Montréal, QC*

· Developed IoT-integrated web app for agricultural irrigation optimization
· Implemented core features including WiFi/Bluetooth sensor connectivity
· Designed monthly/annual reports on water/nutrient usage
· Utilized Angular frontend and NestJS backend with MongoDB
· Integrated solar power constraints for field sensors

PolyHacks Hackathon 2025 — 2nd Place   February 2025
Fullstack Developer – Participant   *Montréal, QC*

· Developed sustainability-focused educational web application with AI features within 24 hours
· Integrated real-time feedback system and chatbot using machine learning APIs
· Implemented 3D visualizations using Three.js for enhanced user engagement
· Leveraged Angular and Node.js for full-stack development
· Earned 2nd place among 50+ competing teams, see project

PolyHacks Hackathon — 4th Place   February 2024
Fullstack Developer — Participant   *Montréal, QC*

· Developed compost-sharing web prototype within 24 hours
· Implemented efficient code collaboration using Git
· Utilized Angular, TypeScript, and MongoDB stack

EDUCATION

Polytechnique Montréal, Montréal   *May 2025*
Bachelor's Degree in Computer Engineering
Concentration in Security and Mobile Computing