

Luca-Bogdan Moldovan

Full Stack Developer & Robotacist

18 · Satu Mare, Romania

CONTACT

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SKILLS

JavaScript / TypeScript

Node.js

Python

React / Frontend

CAD / 3D

AI / Machine Learning

STACK & TOOLS

HTML/CSS

Express

Socket.IO

Flask

CoreML

Git

Linux

OpenSCAD

Fusion 360

FTC/FLL

LANGUAGES

Romanian (native)
English (advanced)
French

PROFILE

I build robots (hardware, software, CAD) and complete web apps, end to end from frontend to backend. FIRST robotics team leader (FTC & FLL), into AI, design and products that solve real problems.

EXPERIENCE — ROBOTICS & WEB

Team Leader — Perpetuum Mobile (FTC #17870) <i>FIRST Tech Challenge · design, programming, team management</i>	2025 — present
Founder & Coach — CrocoRobo (FLL) <i>FIRST Lego League · team founding, mentoring kids</i>	2024 — present
Web Developer — Press Office, CJE Satu Mare <i>Satu Mare County Students' Council</i>	2025 — present
Web Developer — Press Office, CNE <i>National Students' Council (BEX CNE decision)</i>	2025
Founder & Team Leader — TeoretiKa (FTC #22114) <i>First FTC team founded</i>	2022 — 2023
3D Design → PR Dept. — Perpetuum Mobile <i>3D design, communication & PR</i>	2023 — 2025
Member — ARPD <i>Association for Representation & Diplomatic Projects</i>	2025 — present

AWARDS & DISTINCTIONS

- 1st Prize** — National Science Creativity Olympiad (ONCS), county 2025 · *TrainBot*
 - Winner** — Swift Student Challenge, Apple 2025
 - 3rd Prize** — National IT Olympiad (TIC), county 2025
 - 2nd Place** — Les Prix des Clubs Francophones d’Affaires 2025
 - Bronze Award** — International STEM Innovation Olympiad 2024
- Special Prize** — „Beyond Sciences” contest 2025 · *TrainBot*
 - Connect Award** — Robotics League Tournament Cluj 2025 (FTC)
 - „Nation through Education”** — Qualifying Tournament Bistrița 2026
 - Honorable Mention (7th)** — national ONCS 2026 · *ArvuScan*
 - Honorable Mention** — ONCS county 2024 (Collatz conjecture)
 - Honorable Mention** — National IT Olympiad, county 2024

INTERESTS

- ♦ Artificial intelligence & ML
- ♦ FIRST robotics (FTC / FLL)
- ♦ Design & visual identity
- ♦ Diplomacy & debate (MUN)
- ♦ Hardware & 3D printing

SOFT SKILLS

- ♦ Team leadership
- ♦ Public speaking & PR
- ♦ Project management
- ♦ Mentoring

IN SHORT

10+ web & robotics projects · 3 FIRST teams founded/led · 11 awards & distinctions.

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OLYMPIADS & COMPETITIONS

National stage — ONCS <i>National Science Creativity Olympiad · TrainBot</i>	2025
UTCN ROBOTX Challenge, 3rd edition <i>Technical University of Cluj-Napoca</i>	2026
Regional FLL Challenge, Baia Mare <i>FIRST Lego League · CrocoRobo</i>	2025
Timișoara Model United Nations <i>Delegate · diplomacy & debate</i>	2025
Bebras Romania <i>Computational thinking · 98p / 130p / 91p</i>	2023 — 2025
CS50x — Harvard <i>Completed: 10 problem sets + final project</i>	2024

SELECTED PROJECTS

TrainBot — EdTech ecosystem teaching kids (7–14) AI & ML: iOS app with CoreML models trained on-device, teacher dashboard, Node backend.

ArvuSolutions — AgriTech ecosystem: autonomous robots (soil scanning, CNC planting, monitoring, drone) + web platform with a 3D GeoSelect map and agronomic AI.

CrocoAI — internal platform with an AI assistant, real-time chat, tasks and calendar (Node, Socket.IO).

RO Worlds Tracker — live tracker for the Romanian teams at the FIRST World Championship 2026, Houston (Web Push).

Cryptography Lab — educational site teaching kids the basics of cryptography through games.

CODREA BATI — commercial website for a construction company in France.

VOLUNTEERING & ROLES

Member — Volunteering & Non-Formal Education Dept., School Students' Council (2024–2025) · Volunteer — UNTOLD Festival, 10th edition (2025) · Volunteer — County Math & Computer Science Camp (2025) · SNAC Certificate (2024) · Diploma „Youth for gender equality & empowerment” (2025).

References and full portfolio available at moldluca.tech