Niculae George Alexandru

Industrial Engineering Undergraduate

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👤 About Me

I am a motivated and adaptable individual with a strong analytical mindset and a passion for technology.

Through my academic journey and hands-on experience, I have developed problem-solving skills and the ability to work efficiently both independently and within a team. I am always eager to take on new challenges, learn quickly, and contribute to innovative projects.

🧩 Programming Skills

Python	**CSS**
C++	**JavaScript**
Labview	**HTML**
Java	**PHP**
MatLab	**Arduino**

🎓 Education

Bachelor of Industrial engineering and Robotics
UNSTB - FIIR 2022-2026

From October 2022 to June 2026, I am pursuing a bachelor's degree in Industrial engineering and Robotics, specialization in **Industrial Informatics** at National University of Science and Technology Polyethnic Bucharest.

My coursework includes computer **programming and programming languages**, designing algorithms, robotics, python programming, neural networks, web technologies, programming systems engineering and more

💼 Experience

Tech Company
EVA Staff   25.06.2024 - 27.08.2024

During this work experience, I had the opportunity to work on various aspects, such as:

- Managing and organizing a project
- **Working in a team** and collaborating efficiently
- Implementing and installing an IoT solution
- **Automating software** processes using programming languages like Python

Through these activities, I gained a better understanding of project management, **developed my communication** and collaboration skills, learned to implement IoT solutions, and improved my expertise in software automation.

📄 Personal Projects

Start Up GymShop - E-commerce presentation website
HTML | CSS | JavaScript | Python - Django | SQLite

GymShop is an e-commerce platform for sports equipment, featuring user authentication, session management, and secure password handling. Built with **HTML, CSS, JavaScript, Django, and SQLite**, it showcases my ability to develop fullstack web applications. While still in progress, it highlights my foundational skills in building scalable and secure systems.

Entity Resolution with Fuzzy Deduplication
Python | RapidFuzz | NetworkX | Pandas

Developed a scalable fuzzy deduplication system that grouped **33k+** messy company records into **~7k** unique entities using **custom scoring, blocking, and graph clustering** — all without labeled data or pre-trained models.

PPE Detection Using YOLOv8

Python | YOLOv8 | PyTorch | Pandas | NumPy | OpenCV

Developed an **AI-powered system** using **YOLOv8** to automate PPE detection in industrial settings. The solution improves workplace safety by reducing manual monitoring and ensuring compliance with safety regulations