

LUCA DUMITRU



CONTACT

- ☎ +40 723 088 497
- ✉ lucadumitru314@gmail.com
- 📍 București, România
- 🌐 www.dumitru-luca.me
- 🌐 www.linkedin.com/in/nicolae-luca-dumitru

SKILLS

- Intermediate knowledge of Python and JavaScript
- Solid understanding of C
- Solid understanding of OOP
- Familiar with Git/GitHub and Linux environments

EDUCATION

- Pursuing a Bachelor of Science in Computer Science, Faculty of Automatic Control and Computer Science, University Politehnica of Bucharest (2023 – expected 2027).

ABOUT ME

A Computer Science graduate motivated by turning theoretical knowledge into real-world applications. My projects, including a YouTube Transcript Generator and a RAG-based application, reflect a consistent interest in building tools that help people save time and simplify complex processes. Alongside strong technical skills in software development and networking, I bring analytical thinking, adaptability, and a commitment to delivering value in collaborative environments.

PROJECTS

YouTube Transcript Generator

Jun 2025 - Present

- Web app for extracting and formatting YouTube video transcripts, helping users quickly find information and repurpose content.
- Developed backend API in Python (Flask) for transcript extraction and processing.
- Built a responsive frontend interface using JavaScript, HTML, and CSS.
- Integrated YouTube API and OpenAI API for automated summarization and chat features.

Impact: Enabled users to find answers in long videos (e.g., 50-minute videos) in about 15 seconds, significantly reducing time spent searching for relevant content and improving overall accessibility.

Live project: <https://youtubetranscriptgen.com/>

RAG - Retrieval-Augmented Generation Project

Feb 2025

- Python-based project implementing retrieval-augmented generation to provide fast, context-aware answers from large text datasets.
- Focused on optimizing processing time and relevance of answers from unstructured text data.

Impact: Enabled retrieving accurate answers in just a few seconds, even when working with tens of large documents, significantly improving efficiency for research and learning tasks.

HOBBIES AND INTERESTS

Aviation is my biggest passion, and I hold a private pilot license. Beyond the technical side, flying gives me balance and a strong sense of discipline, and I enjoy sharing this interest with others who love aviation.