






# Cosmin-Marian Voinopol

I work to make things happen

 Website  Projects  LinkedIn  Contact me!  -

## PROJECTS

**SPOTIFY API INSIGHTS** | PYTHON - GOOGLE COLAB, SPOTIPY, PANDAS, SEABORN  
2022

- Used Spotipy library to query data from Spotify API
- Extracted insights like popularity among sad vs. happy songs
- Plotted statistics using Pandas + Seaborn

**PERSONAL WEBSITE** | REACT - HTML + JAVASCRIPT | TAILWIND - CSS  
2021-2022

- Built a responsive website to showcase my work
- Used Figma to design layout + create vector icons
- Hosted using Firebase

**COLLEGE COURSES (1ST YEAR)** | PYTHON, C, C++, BASH, ASSEMBLY (NASM)  
2021-2022

- Python - Manage student assignments using CRUD operations + Undo
- C - Manage contest participants using CRUD operations + Undo & Dynamic memory allocation
- C++ - Manage travel offers using CRUD operations + Undo & GUI with Qt | Data structures and Graph algorithms implementations
- Bash + C - Regex + Scripting + Concurrent programming
- NASM - Assembly + C programming

**ML COURSE @COURSERA** | OCTAVE  
2020-2021

- Completed Machine Learning course taught by Andrew Ng from Stanford
- Used Octave to implement various algorithms
- Explored subjects like:
  - Regression(Linear + Logistic) • SVMs • Dimensionality reduction • Neural Networks • Practical examples with recommender systems + photo OCR

**MIDI CONTROLLER REWRITTEN** | PYTHON  
2020

- Used Python to rewrite Minilab Mk2 functionality inside Ableton Live DAW
- Reverse-engineered code to understand Sysex messages
- Used Ableton API to modify + implement functionality
- Almost 6000 views + tens of downloads on forum post | 11 stars on Github

**TRIVIA BOT + CAPTCHA SOLVER** | PYTHON - SELENIUM, OPENCV, TESSERACT-OCR  
2018

- Used Selenium to automate tasks like logins, reading + answering trivia questions etc.
- Used OpenCV to pre-process Captcha images
- Used Tesseract-OCR to solve captcha using processed images

## SKILLS

### PROGRAMMING

Good with:  
Python • C • C++

Familiar:  
HTML • CSS • SQL • Shell •  
Assembly (NASM) • Octave

### TOOLS/PLATFORMS

VSCode • Git • Google Colab •  
WSL

## EDUCATION

### "BABES-BOLYAI" UNIVERSITY

BACHELOR'S IN COMPUTER SCIENCE  
Sep 2021 - Present  
Cluj-Napoca, Cluj, Romania

### "ZINCA GOLESCU" NATIONAL COLLEGE

BACCALAUREATE DIPLOMA  
Sep 2017 - June 2021  
Pitesti, Arges, Romania

## MISCELLANEOUS

Romanian - Native  
English - C2 Cambridge Assessment

- Organized
- Calm
- Tinkerer at heart
- Communication is key