Nica Ioana-Efi

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Education

Politehnica University of Bucharest Oct. 2021 – July 2025
Automatic Control and Computer Science *Bucharest, Romania*
National College "Mircea cel Bătrân" Sep. 2017 – June 2021
Mathematics and Informatics, Intensive Informatics *Vâlcea, Romania*

Relevant Coursework

- Data Structures
- Computer Programming
- OOP
- Databases
- Web Tehnologies
- Machine Learning

Projects

The Population Registry at the Police February 2024

- ∗ Technologies used: HTML, **Microsoft SQL Server**, CSS, JavaScript, Node.js, **EXPRESS Framework**
- ∗ The main objective of the project is to provide quick and secure access to essential information and improve population management processes within law enforcement institutions.
- ∗ The Express framework is used for route handling and middleware management
- ∗ The application enables the secure updating, deleting and addition of information about citizens and documents, ensuring data integrity and confidentiality

ImageClassifyPy January 2024

- ∗ Technologies used: **Python**
- ∗ The application highlights that the K-Nearest Neighbors (KNN) algorithm demonstrates superior adaptability to the dataset, achieving better performance compared to Naive Bayes. This aspect suggests that KNN may be a more efficient option for classifying images
- ∗ Accuracy is measured by generating the classification report and displaying the confusion matrix, providing detailed information about the model's performance for each class of data (scissors, paper, rock

Logarithmic Gray Level Transform January 2024

- ∗ Technologies used: **Java**
- ∗ This app is an image processing technique used to adjust contrast and enhance details, particularly in darker areas, by applying a logarithmic function to pixel values.
- ∗ The application processes 24-bit BMP images (RGB)
- ∗ It fully incorporates object-oriented programming concepts such as encapsulation, inheritance, polymorphism, and abstraction
- ∗ Additionally, the application implements a Producer-Consumer pattern with multithreaded communication, utilizing separate threads for reading and processing image data.

Weather App Ianuary 2023

- ∗ Technologies used: **JavaScript**, HTML, CSS, **Weather API**
- ∗ The Weather App is an application that allows you to select any city and display the current weather conditions and forecasts for the upcoming days
- ∗ Weather data is obtained through a Weather API, ensuring the accuracy and timeliness of the displayed information
- ∗ The app provides an intuitive and user-friendly interface

Extracurricular

ECDL PROFILE CERTIFICATE Ianuary 2021
CERTIFICATE OF PROFESSIONAL COMPETENCE June 2021

Technical Skills

Languages:
Intermediate: C++, **Python**, **SQL**, HTML/CSS
Basic: **Java**, C, Javascript, Linux
Frameworks:
Intermediate: Node.js, Express, API