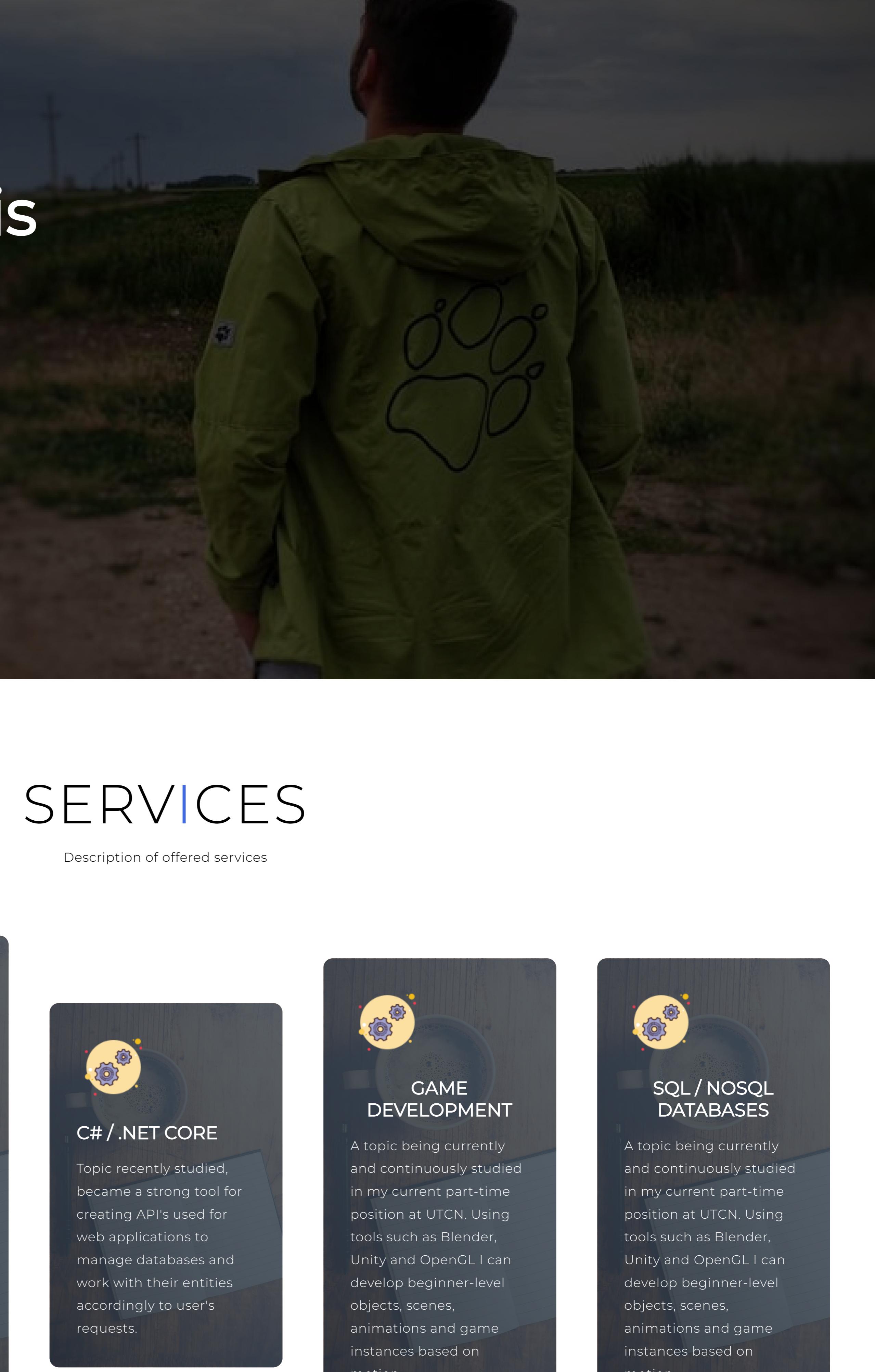


# Hello, My Name is Nicu

[PORTFOLIO](#)


## SERVICES

Description of offered services

### WEB DEVELOPMENT

I offer website development services using HTML, CSS, JavaScript, jQuery, Node.js, Bootstrap and Angular. From a simple brochure website to more complex web applications, I can create custom solutions that meet your needs and align with your brand.

### C#/.NET WINDOWSFORMS

.Net Framework is a familiar technology especially the toolset provided by WindowsForms. Working with this toolset since the second year of University I can leverage skills for creating robust and good-performing windows applications with a certain degree of GUI customization.

### C#/.NET CORE

Topic recently studied, became a strong tool for creating APIs used for web applications to manage databases and work with their entities accordingly to user's requests.

### GAME DEVELOPMENT

A topic being currently and continuously studied in my current part-time position at UTCN. Using tools such as Blender, Unity and OpenGL I can develop beginner-level objects, scenes, animations and game instances based on motion.

### SQL / NOSQL DATABASES

A topic being currently and continuously studied in my current part-time position at UTCN. Using tools such as Blender, Unity and OpenGL I can develop beginner-level objects, scenes, animations and game instances based on motion.

## RECENT PROJECTS

### Wild House

C# | .Net Framework | .Net WindowsForms | NoSQL | Custom GUIs

As it can be seen through GUIs this application was built through the passion I have for pets and wildlife. It resembles an application for managing the database of a shelter. It connects to a NoSQL database and starts with a Login Screen/New Account. Working with lists and listbox controls displaying a series of available pets up for adoption was an easy task. I've also set a search bar for filtering through available pets by their name and there is also a possibility for searching by different properties. Besides adoptions requests which should be approved by an admin there is also an app-store containing products specifically designed for pets.

On the homepage of a user, one can see a list of all pets this specific user has adopted through this app. Furthermore, a matching quiz has been set to compare and link a user with its perfect pet if available for adoption.

Through windows' properties, one stood out working similar to a green screen and allowing the customization of the default design of WindowsForms controls.

### Wild House

C# | .Net Framework | .Net WindowsForms | NoSQL | Custom GUIs

### DANCK Clinic

C# | .Net Framework | .Net WindowsForms | Continuous Iterations of controls

What started as a gaming project to keep track of all the progress over multiple games quickly turned into a decent tool for testing. The main focus of this project was storing data and iterating on each run the entities of the tableLayoutPanel. By a click of a button a new row in the table would be created and through this process a series of events would be also triggered for adding specific controls of WindowsForms inside each respecting column of the newly added row. After the user would complete the fields through another button all the contents of the table would be saved. By these means it would allow continuing the addition of data in the table at any given time just by opening the application.

Through the development of the project sound effects were also studied and applied on button click events for a smoother use of the application.

### DANCK Tester

C# | .Net Framework | .Net WindowsForms | SQL

This project is a tool built to ease the process of getting a medical appointment, it can be implemented in various types of medical institutions such as clinics, sanatoriums or hospitals, with minimal changes, however the specific case of a hospital was chosen. The application works alongside a SQL Database and has different functionalities based on the type of user which is logged in. It provides an easy way for patients to schedule appointments with their family doctors and view upcoming appointments. Family doctors in the Romanian health system are responsible for conducting medical check-ups and treating patients directly for less serious conditions. Specialist doctors are trained to treat specific, more serious conditions and review preliminary diagnostics made by the family doctor before conducting their own assessment of the patient. Doctors using this application have access to patient histories and can modify appointments, while administrators can modify program data for efficient management. Overall, this application streamlines the healthcare process for patients, doctors and administrators.

### Motion Based Application - Thesis

C# | .Net Framework | .Net WindowsForms | Charts | Real-Time | MQTT | OpenGL | RS10 Board | Motion Reconstruction | Data transfer

The main focus of my thesis was trying to achieve a decent motion reconstruction from the real world in a virtual one by using a rather cheap board compared to the best on the market trying to prove that we, as developers, are capable of reducing a lot of production costs using our skills of coding. RS10-DB-GEVK was the board that was used for its accelerometer and gyroscope. Through a complicated route and using a MQTT server for data transmission, a client built in .Net WindowsForms was able to retrieve and save these data sets. Furthermore, the C# application does various computations to transform the data from the accelerometer and gyroscope data each having sets for all three axis (X,Y,Z). Then it applies the movement on five of the cubes for a proper display of the reconstructed motion.

### Motion Based Application - Thesis

C# | .Net Framework | .Net WindowsForms | Charts | Real-Time | MQTT | OpenGL | RS10 Board | Motion Reconstruction | Data transfer

The main focus of my thesis was trying to achieve a decent motion reconstruction from the real world in a virtual one by using a rather cheap board compared to the best on the market trying to prove that we, as developers, are capable of reducing a lot of production costs using our skills of coding. RS10-DB-GEVK was the board that was used for its accelerometer and gyroscope. Through a complicated route and using a MQTT server for data transmission, a client built in .Net WindowsForms was able to retrieve and save these data sets. Furthermore, the C# application does various computations to transform the data from the accelerometer and gyroscope data each having sets for all three axis (X,Y,Z). Then it applies the movement on five of the cubes for a proper display of the reconstructed motion.

### Facture Website

HTML | CSS | JavaScript | Jquery | Angular | Kendo | C# | .Net Core | SQL

This project is built as a way of storing and managing bills bounded to users' addresses. It has a background made by three parts, a database of type SQL, a backend built in ASP .NET Core containing APIs listening for calls through CORS and managing the database and a frontend including functionalities of Angular and Kendo frameworks with design details improved by Font Awesome's API. It implies a landing page with a navigation menu where the user can either login or register a new account using a street address. The invoices are displayed in a grid for each user with its correlating addresses based on the passing months. Each address has attached to it the months of the year each month having its invoices to be shown. Fields of the invoices can be directly changed in the UI and generation of a new month is done simply by pressing a button automating the creation of new invoices leaving the user to complete only the price needing to be paid through Kendo's grid UI.

### Vivarium

Blender | Basics

This little project started for learning purposes of Blender's functionalities. It resembles a glass chamber designed for plants I have on my night stand. I considered it being a good practice trying to reconstruct the facility and plants using Blender modelling. As it can be seen the enclosure is made out of glass with black lines marking each piece of rectangle from which the object is built. Inside it are three layers namely dirt for sustaining the plants, a layer of tourquise colored sand and it is all covered in a set of red rocks. There are two types of plants; succulents, living in the environment one with its stem being the predominant part and one having its leaves as main constitution.

As closing statement, it was indeed a good practice for learning the shortcuts of many of Blender's functionalities and how they are used to properly operate with the amazing tool this application consists in.

[DOWNLOAD RESUME](#)

## ABOUT ME

Masters student and associate professor of Technical University of Cluj-Napoca

Costea Nicu is my name. As a member of the Technical University of Cluj-Napoca, I am now studying topics in applied informatics in complex systems. Constantly extending my perspective is one of my unwavering hobbies, which takes on a whole new meaning when it comes to software development, design and digital graphics. As a result, in addition to university lectures, I participate in online tutorials, lectures, or courses on web design, 3D modelling and game development because this is not a topic that I encounter in my everyday life as a student, but it is one that I find fascinating. To give this self presentation a personal touch, I must state that I am a very friendly person and an enthusiastic pet lover. Hiking through beautiful natural wonders and being amazed by wildlife's freedom are two of my biggest joys in life.

## CONTACT INFO

Phone

0741153507

Email

nicu\_costea@yahoo.com  
Costea.Vi.Nicolae@student.utcluj.ro

Address

Floresti, Cluj

Github

cosnic/projects