

Lațcu Cristian-Simion



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Residence: Glimboca, Caras-Severin

EDUCATION

University "Politehnica" of Timișoara. Timisoara, Romania

26/09/2022 – CURRENT

Degree Name: BACHELOR OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY Faculty of Automation and Computing

Relevant Modules: computer programming, logic and discrete structures, programming techniques, OOP, computer architecture, computer-aided mathematics, data structures and algorithms, fundamentals of software engineering, programming and analysis of algorithms, Parallel and Distributed Algorithms, Distributed Programming of Software Systems

Awards and Certifications

19/04/2022

Participation at the national stage of Society's Olympiad for excellence and performance in informatics – Society's Olympiad for excellence and performance in informatics

26/04/2021

Participation at the national stage of Society's Olympiad for excellence and performance in informatics – Society's Olympiad for excellence and performance in informatics

Granada, Spain

ERASMUS PROJECT PARTICIPATION

During the 3-week project, I engaged in intensive web development learning, collaborating with two other colleagues to complete a project.

27 august 2024

Professional Certificate: IBM Full Stack Software Developer

Completed 14 courses and projects, including:

- **Full Stack Application Development Capstone Project**
- **Python for Data Science, AI & Development**
- **Introduction to Cloud Computing**

Skills Acquired:

- **Computer Programming:** HTML, CSS, JavaScript, Node.js, React, Python Programming
- **Cloud Computing:** DevOps, CI/CD, Docker, OpenShift, Kubernetes
- **Software Engineering:** Software Architecture, Software As A Service (SaaS)
- **Web Development:** Modern web development, Bootstrap
- **Programming Principles:** Core programming concepts, Application Security
- **Data Management:** SQL and NoSQL databases

PROJECTS

Project: Full-Stack Platform for Solving Algorithmic Problems

GoodCode is a **dynamic full-stack application** built with **React** (frontend), **Node.js** and **Express** (backend), and **MongoDB** (database). The platform empowers users to **create accounts** or **log in via Google authentication** seamlessly. It offers a curated **list of coding challenges**, enabling users to solve problems in popular programming languages such as **C#, Java, Python, and JavaScript**.

The application leverages the **Piston open-source runtime engine** to execute and evaluate code submissions efficiently. To enhance user engagement, GoodCode includes a **real-time leaderboard**, ranking users based on the number of challenges solved. Additionally, **interactive user profiles** provide detailed insights, including the total problems solved, links to each solved problem (with **problem IDs**), and the programming languages used.

GoodCode combines **modern web technologies**, **gamified learning elements**, and a **robust backend** to deliver an engaging and scalable platform for programming enthusiasts.

[Github Repository](#)

Project: Full-Stack Job Platform

Description: Developed a comprehensive job platform that connects job seekers with employers, featuring user authentication, job management, and an interactive chatbot.

- **Backend:** Implemented with Django and DRF, including token-based user authentication, job post management, and profile handling. Integrated a chatbot for user queries, with PDF text extraction and external APIs. Dockerized for consistent and scalable deployment.
- **Frontend:** Built with React for a dynamic and interactive UI, allowing seamless interaction with the Django backend to manage job posts, profiles, and job searches.
- **CI/CD:** Automated deployment with GitHub Actions, using AWS Lambda for serverless deployment to enhance scalability and efficiency.
- **Dockerization:** Containerized the Django backend and React frontend, ensuring consistency across development, testing, and production environments.

[GitHub Repository](#)

Food Donation Platform

I developed a web platform that efficiently connects food donors with beneficiaries in need.

Key Features:

- **User Registration:** Allows users to sign up as donors or beneficiaries.
- **Donors:** View collection points and required food items.
- **Beneficiaries:** Input delivery addresses and specify needed food items.
- **AI Suggestions:** Provides intelligent recommendations for potential donations.
- **Interactive Map:** Displays collection points and delivery addresses using Leaflet.js.

Technologies Used:

- **Frontend:** HTML, CSS, JavaScript (Leaflet.js for interactive maps)
- **Backend:** Node.js, Express.js
- **Database:** MongoDB
- **Additional Tools:** Leaflet Control Geocoder, AI algorithms for food suggestions
- <https://github.com/CristiL75/DonareMancare>

CryptoTransact

Developed a web application using React.js and Ethereum for sending/receiving ETH, attaching messages and keywords, and viewing transaction history. Integrates with MetaMask for Ethereum wallet functionality and uses Solidity smart contracts to manage transactions on the Ethereum blockchain.

Technologies: React.js, Ethereum, Solidity, MetaMask

[GitHub Repository](#)

Skills: Java, C/C++, Python, JavaScript (React.js), Solidity, Django, Node.js, Express.js, Socket.IO, Flutter, Docker, HTML, CSS, Web APIs, CI/CD (GitHub Actions, AWS Lambda), MongoDB, pytsx3, Leaflet.js, MetaMask. I've applied these skills across various projects, including web and blockchain applications.