Matei Pop

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Junior Software Developer

I have been passionate about programming from a young age, constantly exploring and improving my skills through projects, competitions, and hands-on experience. Over time, I've built a strong foundation in software development while also learning to work effectively in teams. Through volunteering and collaborative work, I've become a confident communicator, adaptable, and driven to contribute in both technical and team-oriented environments.

SKILLS

Languages: Python, C#, C++, JavaScript, MySQL

Frameworks: .NET, React, Entity Framework, REST APIs

Data & Tools: Git, MySQL, Postman, BLE tools

EDUCATION

Master's Degree in Artificial Intelligence for connected industries
Babeş-Bolyai University   Cluj-Napoca • 10/2025 - 07/2027

Bachelor's Degree in Computer Science
West University of Timisoara • GPA: 3.30   Timisoara • 10/2022 - 07/2025

WORK EXPERIENCE

Continental Automotive   06/2023 - 09/2025
Software Developer

At Continental Automotive, I developed a **C#** application used in the **homologation process of a Mercedes sensor**, helping prove the sensor's reliability under strict automotive standards. I built a Windows desktop app in **.NET (Windows Forms)** to decode **BLE** advertisement packets from TPMS sensors, supporting **burst detection**, **state transitions**, and **live signal decoding**, which was actively used by test engineers for sensor validation. Additionally, I automated a Python-based workflow that **migrated hundreds of gigabytes of test data** to a new platform by restructuring file formats, eliminating the need for manual intervention and significantly reducing developer workload.

PROJECTS

ScanSecure – Automated OCR ID Processor   10/2024 - 01/2025
NOKIA

Developed a full-stack web application that uses OCR to extract key identity data (name, date of birth, ID number, address) from ID card images and store it securely in a **MySQL database**. Built the frontend in **React** and the backend in **Python**, integrating with OCR libraries and API endpoints.
Impact: Streamlined manual ID verification processes.

BLE TPMS Advertisement Analyzer
Continental Automotive

Built a Windows desktop app in **.NET (Windows Forms)** to decode **Bluetooth Low Energy (BLE)** advertisement packets from Tire Pressure Monitoring System sensors. Supported burst detection, state transitions, and live signal decoding.
Impact: Used by engineers to validate sensor behavior during automotive testing.

ChefAI

Developed a React-based AI application that uses the **Claude 3 Haiku API** to generate recipes based on user-input ingredients. Frontend built in **React + JavaScript**; focused on smooth UX and fast inference

results.
Impact: Turned manual meal planning into a smart, AI-assisted experience.

Hotel Room Management

Created the frontend of a hotel reservation system using **React**, with distinct views for guests and administrators. Integrated booking, room listing, review system, and API connectivity with a **Spring Boot** backend.
Impact: Practiced full UI/UX and component logic in a realistic business app structure.

AI Social Media Automation System

Developed a system that uses **artificial intelligence** to **automate** social media activity across multiple platforms. Leveraging **AI** for **content generation** and response handling, the tool can automatically create posts, reply to messages and comments, and generate stories. It combines natural language processing with scheduling and platform **APIs** to boost engagement and reduce manual effort.

The Adventure Game

Personal Project

Built a custom 2D game engine in **C# using SDL and Silk.NET** with dynamic animation loading, tile-based world rendering, and runtime scripting via **Roslyn**.
Impact: Showcased advanced graphics logic and in-game code execution.

Blockchain Centralized Bridge

Personal Project

Built a secure token bridge between **Ethereum and Sui**, enabling cross-chain transfers of a custom token (IBT) via smart contracts. Developed the frontend for wallet integration (**MetaMask, Sui Wallet**) and user interaction.
Impact: Gained hands-on experience in Web3, smart contracts, and crypto infrastructure.

Fullstack WebApp

Personal Project

Demonstrated ability to build full-stack apps by combining **.NET Web API** with a **React frontend**. Implemented RESTful endpoints, state management via hooks, routing, and database persistence using **Entity Framework Core** with SQL Server.
Impact: Proved ability to build modern fullstack applications from scratch, even though project wasn't formally saved.

VOLUNTEERING & LEADERSHIP

University volunteering

I was actively involved in university volunteering, supporting various academic and social events. This experience improved my teamwork and communication skills while allowing me to contribute to the student community. It also helped me develop a stronger sense of responsibility and initiative.