

# SZASZ FRANCISC

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[Github](#) | [Linkedin](#) | [Portfolio Website](#)

## PROFESSIONAL SUMMARY

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Detail-oriented Full-stack developer with a solid academic background in computer science and over two years of experience in building responsive, user-focused web applications. Experience in React and Angular, with additional backend exposure in Node.js, Flask, and MongoDB.

Mentored by a Senior IBM Engineer, I follow clean code practices, performance optimization strategies, and craft intuitive user experiences. Eager to contribute to collaborative teams and deliver high-quality software solutions.

## TECHNICAL SKILLS

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### Frontend

- HTML5
- CSS3
- JavaScript
- React.js
- Angular
- TypeScript
- Bootstrap

### Backend/Database

- Node.js
- Express.js
- Flask
- REST APIs
- MongoDB
- Firebase Database

### Cloud & DevOps

- Google Cloud
- Firebase hosting
- Render
- Docker
- Github actions

### Libraries

- UploadCare
- Auth0
- LocalStorage
- Postman

## PROFESSIONAL EXPERIENCE

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### IT Engineer - Colegiul National Andrei Saguna, Brasov (December 2022 – Present)

- Maintain and update school's official web platform and internal systems.
- Monitor systems and internet infrastructure and troubleshoot critical technical related issues.
- Provide technical support to staff and administration
- Mentor students in software development concepts and web technologies.

### Web Developer Intern - Nagarro, Brasov (November 2022 - May 2023)

- Contributed to building a social platform using React.
- Gained practical experience with Git and version control workflows.
- Exposed to core web development concepts including state management, component design, routing, clean code practices and design patterns.

## Web Developer Trainee - Digital Nation (July 2022 – December 2022)

- Contributed to building a responsive movie information website using HTML CSS and JavaScript.
- Gained exposure to asynchronous programming and debugging techniques.
- Acquired hands-on experience in collaborative and team-oriented workflows.

## PROJECT EXPERIENCE

### Carly - Vehicle Registration Management System [Live App](#) | [GitHub Repo](#)

A platform that simplifies vehicle registration for romanian citizens, created to digitalize the current in-person process. Built with Angular on the frontend, powered by MongoDB as the database, and utilising a cloud-native serverless architecture approach, carly is a prototype with real-world potential to help people save time and avoid bureaucracy. Users can reserve number plates, register vehicles, update personal information and the role-based acces allows admins to accept or reject registrations.

Angular, MongoDB, Auth0, UploadCare, Firebase Hosting, EmailJS, Stripe

- Admin-facing SPA for securely managing vehicle registrations.
- Auth0-powered login with role-based access (admin/user).
- Vehicle record submission with document uploads using UploadCare.
- Table filtering, search, and pagination for large data sets.
- Persistent data layer using MongoDB and deployed via Firebase.

### Velto - E-commerce App [Live App](#) | [GitHub Repo](#)

Velto is an online electronics store built with Angular and Angular Material. The backend is powered by a Flask server with REST API endpoints, containerized with Docker and deployed via Google Cloud Run. Admins can add, update or remove products, users can add to cart and order products, check history and update personal information.

Angular, Flask, MongoDB, Firebase, JWT, Google Cloud Run

- A full-stack online store application.
- User authentication via JWT and secure session management.
- Product filtering by category, price, and name with real-time feedback.
- Persistent shopping cart, wishlist, and user order history via LocalStorage.
- Admin panel for product management and backend integration via Flask REST API.

## SokChat - React Chat App

[Live App](#) | [GitHub Repo](#)

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SokChat is a full-stack, real-time chat application created with the purpose to familiarize myself with real-time communication concepts. Built with React and WebSockets backend server, it ensures perfect live communication and message delivery. I've implemented JWT-based authentication, the chat messages are persistent, saved in MongoDB database, and includes a real-time notification system implemented with service workers.

React, Node.js, Express, MongoDB, WebSockets, JWT

- A responsive chat application supporting real-time communication.
- Real-time messaging using WebSockets.
- User authentication with session control and token-based access.
- Persistent chat history stored in MongoDB.
- Notification system for new messages.
- Optimized for both mobile and desktop interfaces.

## REST Countries API Explorer

[Live App](#) | [GitHub Repo](#)

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A responsive web app that consumes a public REST Countries API to deliver an interactive exploration experience. It features a dark/light functionality that allows users to switch between a dark or light theme, in order to have the best possible user experience. Filtering functionality allows users to search for any country and obtain specific data.

HTML, CSS, JavaScript

- Interactive frontend project consuming a public countries API.
- Country search, filtering by region, and border-country linking.
- Detailed country views including population, flags, and currencies.
- Light/dark mode toggle with local storage preferences.

## Job Listings with Filtering

[Live App](#) | [GitHub Repo](#)

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HTML, CSS, JavaScript

- Responsive and accessible job board with tag-based filtering.
- Dynamic filtering logic based on skill tags.
- Clean layout and accessible keyboard navigation.
- Optimised for performance and mobile responsiveness.

- A visually striking agency landing page for marketing use.
- Pixel-perfect conversion of a Figma design.
- Animated navigation menu for mobile and desktop.
- Fully responsive grid layout with modern visuals.

## EDUCATION

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### Transilvania University – Brasov (2022 - 2024)

- *Master's Degree in Internet Technologies*

### Transilvania University – Brasov (2018 - 2022)

- *Bachelor's Degree in Electrical Engineering and Computer Science*

## LANGUAGES

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- English - Full Professional Proficiency
- Hungarian - Native
- Romanian - Native

## PERSONAL INTERESTS

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- Musical performance – Piano, guitar, ukulele, flute
- Automotive customization – Paint design, exhaust tuning and interior mods
- Electronics design – Custom-built audio amplifiers and power units