



Bogdan Velicu

Date of birth: 19/02/2004 | **Place of birth:** Bucharest, Romania | **Nationality:** Romanian |

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EDUCATION AND TRAINING

03/10/2022 – CURRENT Bucharest, Romania

SOFTWARE ENGINEER Universitatea din Bucuresti - Facultatea de Matematica si Informatica

Website <https://fmi.unibuc.ro/> | **Field of study** Information and Communication Technologies (ICTs) not further defined |

Level in EQF EQF level 6

WORK EXPERIENCE

 **4GPS INTERNATIONAL SRL – BUCHAREST, ROMANIA**

SOFTWARE ENGINEER – 01/07/2022 – CURRENT

- adding new features to existing software codebases
- creating software prototypes for new projects
- discussing entire app architecture and development plan
- attend development progress briefings

PROJECTS

01/08/2022 – 01/04/2023

4GPS Mobile App

React Native mobile app development

- **UI / UX** design
- **communication** with backend REST api
- multi-platform (**Android / IOS**) compilation and store upload
- **Google Maps** integration
- **Firebase Cloud Messaging** integration for push messages
- real time vehicle **tracking** on map

Link <https://www.bogdanvelicu.xyz/projects/4gps-mobile>

01/04/2023 – 01/04/2024

4GPS Python Backend

Real Time vehicle tracking backend in **Python**

- maintenance of already present code
- implementing new features to codebase
- **optimizing** database **I/O** operations efficiency
- testing / debugging / profiling

01/06/2024 – 01/06/2025

Hydrotech Remote Irrigation

Pivot Remote Irrigation Systems (Team Project)

Backend

- top level app logic design + technology stack choice
- **Java Spring Boot** in conjunction with **MariaDB**
- **Docker** usage for easy replication in isolate virtual machine environment
- **control of PLCs** in field trough **TCP/IP** for irrigation automation

Frontend

- built using **Flutter** for **Android and IOS**
- **intuitive app design** for users
- **performant maps** with real time pivot status and analytics
- **complex graphs** about pivot data history

Link <https://www.bogdanvelicu.xyz/projects/hydrotech-mobile>

01/06/2025 – 01/08/2025

Hydrotech Pivot Design

Pivot Composition Automation App

- built using **Flutter** with **Google Maps**
- seamless **integration with Google Earth** for satellite position of pivot center
- optimized algorithm for span dimensions calculations
- calculations for optimal diameter needed for specific water flow

Link <https://www.bogdanvelicu.xyz/projects/pivot-designer>

● **LANGUAGE SKILLS**

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **SKILLS**

React, React Native, React Hooks, React Router | Python (computer programming) | Java (computer programming) | Self-taught Flutter mobile app development | Windows, GNU/Linux, MacOS | Software Desing | Reverse-Engineering | Assembly (computer programming) | Intermediate knowledge of MCU programming (Arduino, ESP32) | PCB Design (KiCad, DesignSpark PCB, Eagle): intermediate