

# VICTOR-STEFAN FLORESCU

## Computer Science & Engineering Student

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📍 Bucharest, Romania

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## EDUCATION

B.Sc. Computer Science & Engineering

**University Politehnica of Bucharest**

📅 2024 – Present

📍 Bucharest, Romania

High School Diploma, Mathematics & Computer Science

**Cantemir Voda National College**

📅 2020 – 2024

📍 Bucharest, Romania

## WORK EXPERIENCE

Programming Teaching Assistant

**Faculty of Automatic Control and Computers, UPB**

- Assisted students in learning C programming, low-level concepts, and algorithms during lab sessions.

Member

**HBFS Robotics Club**

- Worked on low-level programming, embedded systems, IoT and 3D modeling.
- Main Project: Smart Autonomous Passive House** – Developed an IoT-based smart home system with STM32 controllers, Raspberry Pi, and real-time monitoring.
  - Technologies:** Spring Boot, Vue.js, YOLO, Docker, MySQL, ROS2, communication protocols.

## TECHNICAL SKILLS

Python C/C++ Java System Design Machine Learning & LLMs Computer Vision Linux Git  
Spring Boot Database Design Embedded Systems Apache Kafka

## SELECTED PROJECTS

**BetterMaps – AI-Powered Route Planning System**

**Python, Vue.js, Google Maps APIs, Gemini AI, Google OAuth2**

- Developed an intelligent route planning system integrating Google Maps APIs (Directions, Places, Geocoding).
- Integrated **Gemini AI** for natural language route queries and personalized POI suggestions.
- Built a secure web dashboard with Google OAuth2 authentication for managing user preferences.
- Implemented adaptive route planning with fuel analysis, waypoint optimization, and preference learning.

**Smart Receipts – AI-Powered Expense Management**

**Python, PaddleOCR, Ollama, Apache Kafka, Spring, Flutter**

- Automated receipt scanning using OCR and LLM-based data extraction.
- Designed real-time data streaming pipeline with Apache Kafka and Spring Boot backend.
- Built a minimal Flutter dashboard for visualization and reporting.

## AWARDS & COMPETITIONS

- 4th Place**, Hard & Soft 2025 International Robotics Challenge – Autonomous maze-solving robot with telemetry and data logging.
- Summer School**, ARM Summer School (Google & NXP, 2025).
- Early completion** of 3rd-year Embedded Systems course in 1st year (University).
- Certification** Spring Framework in Depth.
- Certification** Oracle Database Design.