GEORGE-VLAD SIMION

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SUMMARY

First-year Master's student at the Faculty of Automatic Control and Computer Science, University POLITEHNICA of Bucharest, with a strong foundation in software development and a passion for building scalable, efficient, and user-focused applications, being able to analyze complex problems and adapt quickly to new technologies in order to contribute effectively to projects.

PROJECTS

Travel Agency Platform, Full-Stack Web Application   **Mar 2025 - July 2025**

- Developed a full-stack travel agency platform providing users with an intuitive and personalized experience for planning trips using Google Services (Gemini API and Maps API).
- Built a responsive frontend with React, HTML, and CSS, integrated with a Java Spring Boot backend and PostgreSQL database.
- Implemented user authentication, travel package browsing, filters and sorting, and a personal dashboard with an interactive map.

IoT Application, Microservices-Based Platform   **Dec 2024 - Jan 2025**

- Developed an IoT platform using a microservices architecture to collect, process, and visualize sensor data in real time.
- Built a Python-based IoT simulator, implemented MQTT (Eclipse Mosquitto) for device communication, and integrated InfluxDB and Grafana for data storage and visualization.
- Dockerized the system and deployed it using Docker Swarm, ensuring scalability, high availability, and automated service management.

WeatherApp, Microservices-Based REST API   **Dec 2024 - Dec 2024**

- Built a microservices-based WeatherApp using Java Spring Boot, PostgreSQL, and Docker.
- Designed the database with JPA annotations and implemented Spring Data JPA repositories for optimized data retrieval.
- Developed RESTful APIs for CRUD operations and Dockerized the app with Docker Compose for service orchestration.

City Hall Management, Administrative System   **Nov 2022 - Dec 2022**

- Developed a Java-based management system using Object-Oriented Programming (OOP) principles to handle key administrative tasks.
- Implemented modules for business registration, identity document updates, and student ID management, improving processing efficiency and reducing wait times.

EDUCATION

Master's in Management in Information Technology (MTI)   **Oct 2025 - Present**

Faculty of Automatic Control and Computer Science, University POLITEHNICA of Bucharest
- Focused on IT project management, software development, data mining, and digital innovation.
- Coursework includes: Information Security Management, Software Development in Startups, Data Warehousing, Business Process Management, and IT Project Management.

Bachelor's in Automatic Control and Computer Science, IT Specialization   **Oct 2021 - July 2025**

Faculty of Automatic Control and Computer Science, University POLITEHNICA of Bucharest
- Acquired skills in software development, algorithms, databases, and computer systems.
- Gained practical experience in object-oriented programming, web development, and data management through academic projects and coursework.

ADDITIONAL INFORMATION

- **Skills**: Java, Python, React.js, Spring Framework, SQL, PostgreSQL, Linux, Docker, Distributed Systems, Operating Systems, TCP/IP, OOP, Multithreading, Communication Protocols, Local Networks, IoT
- **Taken Courses:** Introduction to Software Development by Amazon, 3DUPB 2024 Summer School, CCNA Web 101
- **Languages:** English (C1), German (A2)