

Rusu Dinu-Ștefan

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Skills

Programming Languages: Java, Kotlin, Dart, TypeScript, JavaScript, Python, Solidity

Frameworks & Technologies: Spring Boot, Flutter, React, Angular, Liquibase, GraphQL, RabbitMQ, Redis

Tools & Platforms: Kubernetes, ArgoCD, Docker, GitHub Actions, Grafana, Maven, Gradle, Confluence, Jira, Prompt Engineering, LMStudio, Ollama, Serverless, Feature Flags, Ethereum, Hyperledger Fabric

Experience

VP of Engineering, Divigo – Bucharest, Romania

Feb 2025 – Present

- Led a team of engineers in developing comprehensive web and mobile applications for microbus and bus transport operations
- Bridged the gap between executive vision and technical execution by working closely with CEO, CTO, and stakeholders
- Architected and oversaw implementation of microservices-based platform for real-time vehicle tracking and ticket sales
- Collaborated with CTO to define architectural roadmap and select core technologies, adopting AWS ECS for scalable CI/CD

Contracted Senior Engineer, Dell – Bucharest, Romania

Dec 2024 – Present

- Played key role in migrating users from authentication microservice to unified Dell Identity service with alerts and retry mechanisms
- Built suite of Kotlin libraries for handling throwing, retrying, and alerting on Teams for RabbitMQ listeners with complete JUnit5 and Mockito test suite
- Contributed to AI team tribe meetings, improved prompts for LangChain Agent for automated Jira ticket and code generation

Senior Software Engineer, Tazz by eMAG (now Wolt) – Bucharest, Romania

Aug 2021 – Dec 2024

- Finished the Tazz Direct (LAAS) service in under three months
- Built Spring Boot microservice orchestrating automatic dispatching algorithm with bundled couriers and orders
- Developed Taxonomy system for dynamic category creation and custom product attributes for ML team
- Designed architecture for custom access control system with managed permissions elevation, coordinating 2 junior developers
- Engineered microservice tracking KPIs and triggering custom system alerts, preventing data loss across Tazz applications

Research Technician, Politehnica University of Bucharest – Bucharest, Romania

Aug 2025 – Present

- "Tehnologii bazate pe inteligență artificială pentru soluții de încredere împotriva dezinformării"

Teaching Assistant, Politehnica University of Bucharest – Bucharest, Romania

Sept 2024 – Present

- Held laboratories for Software Development Methods, Semantic Web, Object-Oriented Programming, and Data Structures

Contracted Trainer, Deutsche Bank Cloud School – Remote

Mar – Sept 2022, 2023, 2024, 2025

- Taught and led Deutsche Bank juniors in Java and Spring Boot development
- Led full-stack project using Spring Boot and React for automated CV analysis and candidate reporting
- Created automatically graded assignments using GitHub Classroom with JUnit5 tests

Education

Master of Software Engineering – Politehnica University of Bucharest
Bachelor of Computer Engineering – Politehnica University of Bucharest

Oct 2024 – Jul 2026
Oct 2020 – Jul 2024

Honors & Awards

- **Speaker at Devtalks** – "Scaling Flutter to 100k MAU as a solo developer" in 2025
- **Five published papers** on Blockchain technology integrated with LLMs
- Invited to **PRO TV** (ILikeIT) in 2019, 2022, and 2024; **Euronews** in 2024
- SCSS - UPB, **1st place** in 2022 and **2nd place** in 2021
- "InfoEducatie" National Olympiad, **2nd place** in 2020 and **top 15%** in 2019

Projects

EHR Blockchain & LLM-based Platform

- Created web platform for storing Electronic Health Records using Hyperledger Fabric blockchain and Llama3 LLM chatbot, developed using Angular frontend with two NestJS microservices connecting to PostgreSQL and MongoDB databases
- Implemented RBAC by using Keycloak authentication with different user roles (doctor, patient, pharmacist) and adaptive UI

Scanner Alimente - scanneralimente.ro

- Offline mobile app scanning food ingredients and scoring nutritional value, reaching #1 in Health & Fitness
- Peaked at 100k monthly active users using Flutter, Spring Boot, Liquibase, PostgreSQL on Kubernetes

Comentarii BAC Romana si eseuri audio

- Top 5 trending educational apps on Google Play (2021) and top 10 on App Store (2024), cross-platform educational app with essays for national exam, 25,000+ total downloads, 3,000 monthly active users

Kubernetes Cluster using Raspberry Pi 4s

- Established high-performance Kubernetes cluster with three Raspberry Pi 4s for auto-scaling microservices
- Set up RHEL8, NGINX, Prometheus, Grafana, MongoDB, Elasticsearch with custom fan controls and auto-restart features on a Dell PowerEdge R610 server, now migrated to Hetzner Cloud VPS.

Gomoku MiniMax

- Gomoku game in Scala with MiniMax, Alpha-Beta pruning, and memoization
- Played against colleagues and teacher's AI, resulting in draws and wins for the implementation

Minesweeper PVP

- Built a PVP Minesweeper game with Spring Boot backend handling real-time player interactions using WebSockets (STOMP)
- MongoDB backend with Flutter frontend for cross-platform gameplay

Game Assembler & Emulator - "Fantasy Game Console"

"Infoeducatie" Hackathon 2020 - 24h

- Engineered an Assembler and Emulator with a teammate, written in C++, for packing and playing games on an emulated old console which had 128 bytes of RAM, 4000 bytes of ROM, 3840 VRAM, and a resolution of 40 x 192 pixels with 6507 instructions per frame
- 6 general-purpose registers and 4 special-purpose registers for program counter, stack indicator, input data, and utility

Volunteering

- Organizer & Judge at the "Hardcore Entrepreneur" UPB contest in 2021, 2022, 2023, 2024, and 2025
- Judge & Mentor at the "InfoEducatie" National Olympiad in 2021 and 2022