

Tudor Rus

Software Engineer

Romania

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About Me

Experienced software engineer passionate about problem-solving and committed to driving impactful outcomes through technical expertise and continuous learning.

Skills

Frontend

ReactJS, React Native, HTML/CSS, Javascript, TypeScript, Thymeleaf

Backend Development

Java, Spring, SQL, C/C++, Python

DevOps

GitHub Actions **Database Management**

Docker, Jenkins, Heroku, Bitrise, Git, AWS,

PostgreSQL, MySQL, Elastic Search,

Liquibase, Flyway

Personal Projects

Distributed Home Care Medical System

Key features: medication plan management, automated pill-box notification system, patient sensor monitoring capabilities. Java, Spring, Docker, MySQL, React,

Typescript, RabbitMQ, gRPC, Heroku

Banking Application Key features: account and deposit

management, secure transactions and transfers, account alerts. Java Spring Boot, Hibernate, SQL,

Angular, HTML, CSS, JS

Airport Management System Key features: flight scheduling,

passenger check-in and boarding service and monitoring, airport resource management. Spring Boot, Java, ReactJS,

Typescript Berkeley Pacman Al Project

Project aimed to leverage an array of foundational AI concepts, such as

informed state-space search, probabilistic inference, and reinforcement learning. Python, AI, Reinforcement Learning

3D Unity game Unity-based 3D game, showcasing

skills in modeling, animation, shaders,

physics, and peer-to-peer networking. Unity, C#, Blender, Shaders

WhatsApp-YouTube Automation Content creation tool utilizing

existing APIs to detect and upload WhatsApp-shared video files to a

linked YouTube channel as shorts at regular intervals. WhatsApp API, YouTube API, Python, **AWS**

Languages **English**

C2

Romanian Native

French Basic

Education

Technical University of Cluj-Napoca

Computer Science

September 2017 - July 2021 Bachelor of Computer Science

3 Years

1 Year

Experience

Codemart Software Engineer

- Implemented a comprehensive distributed Medical Platform, integrating two management web apps for hospitals and doctors, alongside a patient mobile app.
- Developed front-end and back-end features such as an automatic pharmacy ordering system, code refactoring for full dependencies update, and database migrations.
- Introduced a robust white labeling feature through the creation of a generalized theme customization system for the mobile app.
- Created a React Native library for secure custom file sharing directly with a designated app. Designed and implemented a CI/CD pipeline utilizing Jenkins and Docker for
- the mobile app, containing integration and unit tests, Fastlane build and deployment steps for iOS and Android.
- Technologies: Java, Spring, Hibernate, SQL, ReactJS, TypeScript, React Native, Detox, Docker, Jenkins, Flyway, Fastlane.
- Assumed the roles of Full-Stack Developer, DevOps and Test/QA Engineer.

Software Engineer

Worked on the design and development of the backend architecture for a

Exigea

- prominent German mobile shopping app. Implemented key features including: dynamic feed, automated emailing system, discount computing and management system, and bulk insertion of
- crawled data to enhance user experience. Facilitated administration tasks by creating an intuitive admin panel for seamless management of orders, users, discount campaigns, products, and
- shops. Integrated Elastic Search and established a real-time synchronization system between the Elastic instance and the database, drastically reducing

complex search requests from 15 s/query to less than 0.5 s/query.

- Optimized endpoint response time by refining business logic and database queries throughout the backend, resulting in improved system performance.
- Provided strategic consulting services, offering innovative solutions that effectively balanced client needs and constraints, considering both functional and non-functional requirements. Technologies: Java, Spring, Hibernate, SQL, Liquibase, Thymeleaf, Elastic
- 3 Years Rudymental

Automated Traffic Analyzing System

Project Manager & Developer

Search.

Served as both Product Manager and Team Lead, overseeing the successful

- delivery of a cutting-edge traffic survey automation tool leveraging state-ofthe-art machine learning models. Conducted thorough business analysis to discern client requirements and
- recommended solutions and enhancements to elevate user experience and functionality. Architected the system's infrastructure as a streamlined data processing

pipeline, prioritizing performance, maintainability, and modularity. This

- design approach ensures scalability, allowing for seamless refinement or replacement of modules with more efficient counterparts as the product evolves. Technologies: Python, TensorFlow, Anaconda, Tkinter, PyTorch.
- Led the development of the responsive frontend for a cybersecurity management web application, tasked with defining and monitoring

prevent SQL injection vulnerabilities.

safeguarding sensitive information.

CybrOps Cyber Security

- engagements for client assets and components. Integrated critical security features, including integration with Keycloak for robust login and user management, as well as implementing safeguards to
- Architected and implemented a real-time chat functionality to facilitate direct communication with clients, enhancing collaboration and responsiveness. Designed and implemented robust reporting and statistics capabilities,
- enabling users to export aggregated data per customer for comprehensive analysis and insights. Developed role-based access control features tailored for admins, testers,
- Technologies: Python, React, HTML, CSS, TypeScript, Docker, Postgres. **Product Organizing System**

and customers, ensuring granular access control for CRUD operations and

Designed and developed an innovative pallet product placement system for

a leading Romanian food manufacturing and distribution firm.

- Successfully implemented the Minimum Viable Product (MVP) and orchestrated the team's workflow in alignment with Agile Methodology, ensuring efficient and iterative progress towards project goals.
 - Employed Test-Driven Design principles to enhance system reliability, effectively addressing diverse input variations and complex rule policies, thereby ensuring robust performance under challenging conditions.
- Implemented a complete platform redesign for a natural gas and electrical energy distribution company, enhancing functionality and user experience.

Technologies: Python, Tkinter.

Developed and integrated new end-to-end features enabling dynamic

associated with fraudulent activities.

CEZ Platform Redesign and Implementation

- management of offers, campaigns, and other essential entities within the application.
- Technologies: Java, HTML, CSS, JavaScript, Liferay, Postgres. Software Engineer

1 Year

international betting platform, utilizing advanced AWS features and distributed systems to optimize performance, supporting hundreds of thousands of requests per minute.

Worked on the backend and DevOps development for a leading

- Implemented complex architectures to ensure platform scalability and reliability, contributing to its smooth operation and user experience.
- various techniques to protect the integrity of the platform and mitigate risks
- Developed a duplicate account and fraud detection system, employing

Technologies: Kafka, AWS, GitHub Actions, Cloudformation, Cdk, Java,

Spring Boot, Elastic Search, Docker, TypeScript, Liquibase.

Flutter Group