



# Tudor Rus

Software Engineer

📍 Cluj-Napoca, Cluj, Romania

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## SKILLS

### Frontend Web Development

ReactJS

React Native

HTML/CSS

Javascript

Thymeleaf

### Backend Development

Java

Spring

Hibernate

Liquibase

SQL

C/C++

Python

### DevOps

Docker

Jenkins

Heroku

Bitrise

Git

### Database Management

PostgreSQL

MySQL

Elastic Search

## PERSONAL PROJECTS

### Home Care Medical Platform

Java

Spring

Docker

MySQL

React

Typescript

RabbitMQ

gRPC

Heroku

### Banking Application

Java

Spring

Hibernate

SQL

Angular

HTML/CSS/JS

### Airport Management System

Spring Boot

Java

ReactJS

### Berkeley Pacman AI Project

Python

Reinforcement Learning

## LANGUAGES

English

C2

Romanian

Native

French

Basic

Spanish

Basic

## EDUCATION

Technical University of Cluj-Napoca

(September 30, 2017 - July 15, 2021)

Bachelor of Science, Computer Science

## WORK EXPERIENCE

### Codemart

Software Engineer, 2 years

- Implemented a complete distributed Medical Platform which integrates two management web apps for hospitals and doctors, as well as a mobile app for patients.
- Developed new front-end and back-end features such as: automatic pharmacy ordering system based on treatment and prescriptions, full dependencies update with code refactoring, database migrations etc.
- Delivered a powerful white labeling feature by designing and implementing a generalized theme customization system for the mobile app.
- Created a React Native library for custom secure file sharing directly with a target app.
- Designed and implemented a CI/CD pipeline using Jenkins and Docker for the mobile app which contains testing (integration and unit tests), build and deploy (using fastlane) steps for iOS and Android.
- Technologies: **Java, Spring, Hibernate, SQL, ReactJS, TypeScript, React Native, Detox, Docker, Jenkins, Flyway, Fastlane.**
- Acted as a **Full-Stack Developer, DevOps and Test/QA Engineer.**

### Exigea

Software Engineer, 1 year

- Designed and developed the architecture for the backend of a German mobile shopping app.
- Implemented features like dynamic feed, automated emailing system, discount system, bulk insertion of crawled data etc.
- Enabled administration operations by developing an admin panel which facilitates management of orders, users, discount campaigns, products, shops etc.
- Integrated Elastic Search and created a real time synchronization system between the elastic instance and the database, thus reducing complex requests search time from 15 s/query to less than 0.5 s/query.
- Improved endpoint response time by optimizing business logic and database queries throughout the backend.
- Provided consulting services, balancing the needs and limitations of the client by proposing out-of-the-box solutions that take into account both functional and non-functional requirements.
- Technologies: **Java, Spring, Hibernate, SQL, Liquibase, Thymeleaf, Elastic Search.**

### Rudymental

Project Manager & Developer, 1 year

### Automated Traffic Analyzing System

- Acted as a Product Manager and Team Lead to coordinate the delivery of a complete traffic survey automation tool using state-of-the-art machine learning models.
- Performed business analysis to extract the needs of the client and proposed solutions and improvements to create a more robust user experience.
- Designed the architecture of the system as a data processing pipeline with focus on performance, maintainability and modularity such that each module can be easily refined or replaced by more performant counterparts as the product grows.
- Technologies: **Python, TensorFlow, Anaconda, Tkinter, PyTorch.**

### Product Organizing System

- Managed and developed a highly efficient pallet product placement system for a prominent Romanian food manufacturing and distribution company.
- Implemented the MVP and organized the workflow of the team based on the Agile Methodology.
- Employed Test-Driven-Design to ensure the reliability of the system given a broad input variation range and a complex rule policy.
- Technologies: **Python, Tkinter.**