Ervin Racz

Software Engineer (Full Stack)

Cluj-Napoca, RO

✉ ervin.racz@protonmail.com   📱 +40 770 315 098

in LinkedIn Profile (https://www.linkedin.com/in/ervin-r%C3%A1cz-05137a140/)

▶ Old Hobby Projects (https://www.youtube.com/user/gombike95/videos)

Software Engineer with 5+ YOE working on (FinTech & industrial) web applications. I love making system designs, putting complex algorithms and ideas into practice, and I am an advocate of TDD, Clean Architecture, and DDD.

SKILLS

Front End
Advanced

HTML | CSS | TailwindCSS | React | JQuery | TypeScript | React Table | React Query | Redux | Zustand | Nx Micro-FrontEnds

Back End
Advanced

Java | Spring Boot | TypeScript | NodeJS | Next.js | Spring Batch | gRPC | REST | Microservices | SQL | Prisma | JPA | PostgreSQL | Concurrent Programming

DevOps
Intermediate

Docker | docker-compose | Security / Networking | Kubernetes | AWS | CI/CD pipelines | GitLab | GitHub | Ansible | Bash scripting | Linux

Mobile
Beginner

Android SDK | Flutter | React Native | MobX

WORK EXPERIENCE

Software Engineer at Sitline Technologies   Mar 2022 - Current

📍 **Cluj-Napoca, Romania,**   ⬀ https://www.linkedin.com/company/sitline-technology/about/

Tech I used: Java 17 | Grafana | Docker | docker-compose | Ansible | Spring Boot | Spring Batch | PostgreSQL | QGIS | Linux

- Made low-level/high-level system design ensuring correct data flow between multiple services
- Took project initiatives and led them through implementation to completion
- Developed ETL processes for on-prem solutions
- Implemented partitioning and parallel workflows to reduce the processing time of big data batches
- Rewrote batch jobs for GraalVM to reduce package size and memory usage
- Migrated Java processes, Databases to AWS to reduce IT costs by ~60%

Software Engineer & Scrum Master at Siemens Energy   Sep 2021 - Mar 2022

📍 **Remote - Cluj-Napoca, Romania,**   ⬀ https://www.linkedin.com/company/siemens-energy

Tech I used: Java 11 | Spring Boot microservices | Docker | Kubernetes | PostgreSQL | React | Typescript | React Table | React Query | React Aria | Nx | TailwindCSS | Storybook | Linux

- Made project setup decision for a greenfield project: defining agile processes and technologies to be used
- Ensured best practices are followed like "Feature / Vertical Stories" and "API Design First" approach
- Coached our PO in user story creation, road-map adjustments, and prioritization
- Delivered core features of the application
- Created a series of reusable UI components including a modular data table with various pluggable features
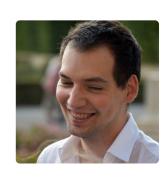- Became the main code reviewer across 3 different teams

Software Engineer & Scrum Master at Bosch   Jul 2019 - Sep 2021

📍 **Cluj-Napoca, Romania,**   ⬀ https://www.linkedin.com/company/boschromania

Tech I used: Java 8 | Spring | Java EE | JSF | JAX-RS | JPA | JPQL | React | jQuery | Oracle DB | WebLogic | JUnit | Ant | Gradle

- Led a team of 6 people

- Improved productivity of the team by reducing the development cycle by optimizing the project setup

- Reduced overall code complexity of the project by proposing and then introducing some architectural changes

- Made several pages of the web application 30 - 50% faster by data access optimization (JPA, SQL, improving on data models, etc.).

- Trained 10+ individuals in handling software development cycles, as part of their induction processes

- Interviewed 30+ applicants during the seasonal recruitment process of juniors

Software Engineer at NGI Systems   Mar 2017 - Apr 2019
 Cluj-Napoca, Romania, ☑ https://www.linkedin.com/company/ngi-systems

Tech I used: Java 8 | gRPC | ORMlite | PostgreSQL | React | TypeScript | Android SDK | JUnit | Docker | Kubernetes | Junit | Bazel | Linux | Jira | Git

- Maintained highly available distributed system

- Removed bugs from a Fin-tech company's web application, making operations 50% more efficient than before

- Developed Innovative payment solutions; integrated with parts of business-critical DUKPT key management system

- Provided feedback to our credit card reader vendor about their Firmware and SDK software to eliminate integration road-blocks

- Developed strategies based on prior research to capture motion (e.g. with IMU sensors)

- Designed Human-Machine Interface for a humanoid robot and implemented it with Android SDK

EDUCATION

2019 - Current
Master`s degree in Software Engineering at Technical University of Cluj-Napoca

2014 - 2018
Bachelor`s degree in Robotics at Technical University of Cluj-Napoca

2010 - 2014
High School : Mathematics and Intensive Informatics at "Mihai Eminescu" National College

AWARDS

2013
3rd place - Kalkulusz Programming Contest at Liceul Teoretic „Bolyai Farkas"
National Competition in Informatics: Data structures and Algorithms

LANGUAGES

English   **Hungarian**   **Romanian**
Advanced speaker   Native speaker   Advanced speaker