




Emanuel Trandafir

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Skills & Abilities

- Java | JUnit | S.Q.L. | MongoDB | Kafka | SpringBoot | J.P.A. | Vaadin | JavaScript | Kotlin
- O.O.P. | F.P. | REST APIs | D.D.D. | B.D.D. | Clean Architecture | Vertical Slices | Event-Driven Architecture
- GitLab | GitHub | Maven | CI/CD | Docker | Google Cloud | Kubernetes | Testcontainers | Grafana

Experience

SOFTWARE ENGINEER | BV GROUP | GIBRALTAR

MAY 2021 - PRESENT

- Developed event-driven microservices to aggregate real-time data from various sources and store it in Big Query for reporting and analytical purposes. (*Java, Kotlin, Kafka, Spring Events, Spring Reactor, Big Query, Firestore*)
- Recreated a part of a legacy web application, designed for managing promotional data. During the reconstruction, I prioritized the decomposition of UI-supported operations into small, cohesive, microservices. Engaging in direct dialogue with operators resulted in a profound grasp of the organizational business flows and a consolidation of the domain model. (*BDD, DDD, REST APIs, Spring Security, Oracle, MongoDB, Vaadin Framework*)
- Crafted comprehensive end-to-end tests, prioritizing system behavior over implementation details. Minimizing the reliance on mocks leads to substantial improvements in testability, deployment confidence, and maintainability. (*JUnit5, AssertJ, WireMock, Testcontainers, Docker, CI/CD*)
- Got involved in all stages of the development cycle: design, development, review, test, deployment, and monitoring. I maintained the CI/CD pipelines and used monitoring and alerting tools to ensure the proper functioning of the software during out-of-hours support. (*Google Cloud, Kubernetes, Gitlab, Maven, Spring Boot Actuator, Micrometer, Grafana*)

SOFTWARE DEVELOPER | PSS - PROSOFT SOLUTIONS | ROMANIA

OCT 2017 - MAY 2021

- Engineered modular Java applications for a large retailer from Germany, integrating retail weighing scales with diverse hardware components. These applications offered a wide array of functionalities, including cash, card, and phone payment processing, receipt printing, barcode scanning, and robust reporting capabilities. (*Java, OSGi Framework, REST APIs, H2, JavaScript, Angular*)
- Improved the testability of the project and created a set of scripts that allowed our manual QA to work remotely during the COVID-19 pandemic. (*Python scripts*)
- Configured a generic banking platform for lending mortgages, and customized its UI for various customers. (*JavaScript, Angular, Formly.js, JSON*)

Online Presence

TECHNICAL AUTHOR

- Authored numerous tutorials and courses on [Baeldung.com](https://baeldung.com), covering topics such as software architecture and paradigms, unit testing, asynchronous programming, and many others. (*Technical articles and courses*)
- Participated at various conferences and events, sharing insights with my team and network. (*Spring I/O, Voxxed Days*)

OPEN SOURCE CONTRIBUTOR

- Contributed to popular open-source projects from the Java ecosystem, used by thousands of teams worldwide. My contributions included opening issues, discussing implementation ideas, implementing new features, and improving documentation for projects such as *AssertJ*, *FasterXML's Jackson*, *Uber's NullAway*, *Google's java-bigquery*, and *Spring-Modulith*.

Interests

I value *simplicity and intentionality* over blindly applying patterns and abstractions. I care deeply about the *design and testability* of the software I create. I also value *communication and collaboration* and enjoy sharing my knowledge through open-source contributions and technical articles.