

# Mihnea Lazar



Senior Software Engineer, Architect, Team Lead

Cluj-Napoca, Romania / [croc.space](https://croc.space) / [github.com/lzrmihnea](https://github.com/lzrmihnea)

Solving business needs with scalable software, all while growing development teams.

/\* WORK EXPERIENCE \*/

## FREELANCE

Senior Software Engineer, Architect, Team Lead / Apr 2021 - Apr 2023

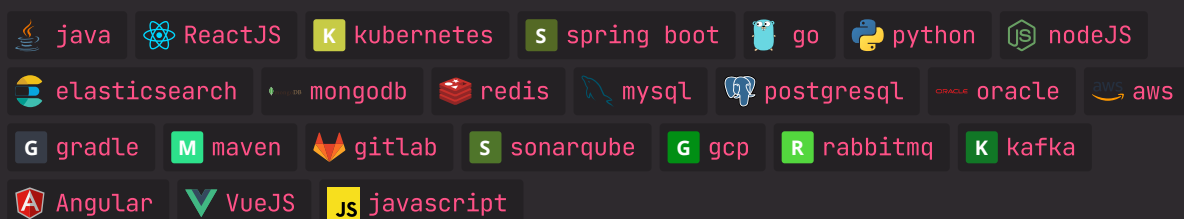
□ Clients: Klevu Oy , Beekeeper , Booking. com , European Patent Office , DISCO .

□ Technologies:

1. Backend: Java, Spring Boot, Go, Python, Node. js
2. Persistence: Elasticsearch, MongoDB, Redis, MySQL, PostgreSQL, Oracle
3. Operations: Kubernetes, AWS, Gradle, Maven, Gitlab, SonarQube, GCP
4. Messaging: RabbitMQ, Kafka
5. Frontend: React, Angular, Vue. js, JavaScript

□ Responsibilities:

1. Proposing, establishing and implementing solutions and architectures to solve clients' business needs
2. Technical leadership and mentoring for development and mixed teams
3. Technical trainings: Java, Spring, Design Patterns, Enterprise Integration Patterns, Software Architecture, Unit Testing



## KLEVVU

Senior Software Engineer Team Lead / Mar 2021 - Apr 2022

Software development on microservices with K8s deployment for DevOps, using Agile and Software Craftsmanship practices.

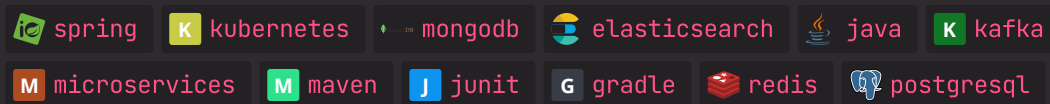
Technologies: Java, Spring Boot, Elasticsearch, Kubernetes, Kafka, MongoDB, Redis, GitLab, SonarQube, Maven, Atlassian stack

### Responsibilities:

1. Technical leadership for team of 5-7 developers
2. Structured team workflow for improved deliverability and predictability (from 10% SP to 60% SP delivered)
3. Deliver microservices for key business features, high-processing of events (~1000events/sec, ~10sec pipeline analysis time)

### Accomplishments:

1. Improved SCRUM workflow and guidelines which were used as templates for multiple teams, to enable metrics, charts and 60-70% enhanced predictability of delivered work, all while increasing autonomy of teams
2. Developed business features for analytics on statistics pipeline which grew from 8 to 12 microservices, while keeping NFR and high event processing parameters
3. Scaled up future team leads for handover



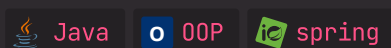
## FASTTRACKIT - CERTIFIED PROGRAMMING COURSES

Technical Trainer / Oct 2020 - Oct 2021

Technical trainer for Java development.

Also included in curricula:

- OOP, Algorithms
- VCS
- Java language explanations
- Relational Databases, Hibernate
- APIs (REST, SOAP, Queues, Topics)
- Spring Boot
- Unit testing, Integration testing



ACCESA.EU

Senior Software Engineer / May 2020 - Feb 2021

Technologies: Node.js, React.js, Java, Spring Boot, REST APIs, JUnit, PostgreSQL, RabbitMQ, CloudFoundry for DevOps, Atlassian stack

#### Responsibilities:

1. Develop backend and frontend features and unit tests
2. Adapt to new programming languages and frameworks (js-based)
3. Maintain client communication to ensure project success in remote team (Romania, Croatia, Germany)

#### Accomplishments:

1. Successfully took over Node.js and React.js project from another development team
2. Simultaneously coordinated Java Summer Internship for a team of 6 interns and 8 mentors.



## ACCESA.EU

Software Architect / Oct 2019 - May 2020

### Technologies:

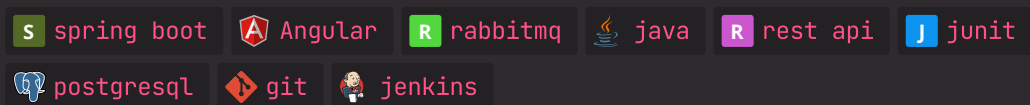
Java, Spring Boot, Angular 8, RabbitMQ, REST APIs, JUnit, PostgreSQL, Git, Jenkins for DevOps, Atlassian stack

### Responsibilities:

1. Develop backend and frontend features and unit tests
2. Design technological architecture for future features and modules
3. Mentor 3 backend colleagues

### Accomplishments:

1. Refactored dynamic translation engine from xls-based translations to a templated service which was rapidly adapted and used in 7 new views for varying domain types requiring dynamic translations.
2. Created skeleton for new micro-service for asynchronous notifications, which was intended for usage in implementing notifications based on events from 4+ client services, destined for varying user types.
3. Simultaneously coordinated the learning & development budget and needs for 80 Java colleagues inside our Business Unit to attend conferences, trainings, to hold internal trainings, and to adapt activities to their needs and other.



## ACCESA.EU

Team Lead and Technical Lead / Jul 2018 - Oct 2019

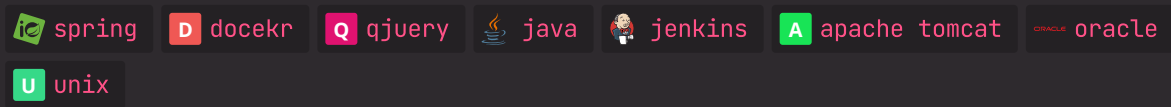
Technologies: Java, Spring framework, Docker, jQuery, Jenkins Apache Tomcat, Oracle, SolidDB, Windows and Unix machine servers for DevOps, Atlassian stack

### Responsibilities:

1. Lead team of 4-8 developers both technically and non-technically
2. Developed features and tested application
3. Evaluated client needs, suggested and implemented technical improvements
4. Mentored colleagues wherever needed

### Accomplishments:

1. Implemented reverse-compatible native query mechanism for DB migration with feature toggle
2. Migrated from windows to Dockerized Unix servers with blue-green deployment model
3. Improved UI/UX with new layout
4. Simultaneously coordinated an internship with 14 interns (9 backend, 5 frontend) and around 20 mentors which delivered a project for a charitable institution
5. Introduced Test Engineer role in team to help with manual and regression testing



## UNIVERSITATEA „BABEȘ-BOLYAI” DIN CLUJ-NAPOCA

Associate Professor / Oct 2017 - Jul 2019

Design Patterns course + lab.

<http://www.cs.ubbcluj.ro/files/orar/2017-1/cadre/lami.html>

<http://www.cs.ubbcluj.ro/files/orar/2019-1/cadre/lami.html>



## ACCESA.EU

Competence Center Coordinator / Java Competence Area Lead / Jan 2017 - Feb 2021

Responsibilities while coordinating the 80-100 member Java Community inside our company.

- coordinated 2 internships with 10-14 interns and 20-25 mentors, hiring rate was 100%
- establishing relevant competencies for roles and levels (Junior, Mid, Senior)
- helping establish career path and relevant learning resource allocation
- engagement with community (internal & external), through various events and opportunities

## ACCESA.EU

Software Engineer / Nov 2016 - Jul 2018

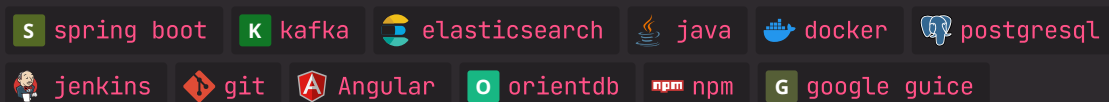
Technologies: Java, Spring Boot, Kafka, Elasticsearch, PostgreSQL, Git, Angular.js, OrientDB, NPM, Google Guice, Docker, Jenkins for DevOps, Atlassian stack

Responsibilities:

1. Developed micro-services to extract and compute e-commerce domain information. Implemented scalable logic
2. Handled unit and integration testing
3. Ensured code quality via code reviews and SonarQube integration.
4. Worked in SCRUM methodology in distributed team (Romania and Germany)

Accomplishments:

1. Created scalable microservice to compute large batches of product price information based on taxes and discounts from multiple countries. Distributed workload for scalability using Kafka queues.
2. Organized team of 2 Romanian developers and 2 German business analytics in SCRUM methodology.
3. Implemented best practices and ways of working.
4. Developed backend (Spring Boot) and frontend (Angular.js) micro-service to send scheduled reports via email to interested parties using customizable scheduled jobs extracting product, orders and sales information from Elasticsearch indexes.



## MSG SYSTEMS ROMANIA

Associate Software Developer / Aug 2013 - Nov 2016

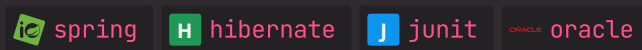
Technologies: Spring, Hibernate, OSGi, Oracle

### Responsibilities:

1. Develop backend software for multiple banking clients from the region of Western Germany.
2. Worked in a 30 developer SCRUM-of-SCRUMs methodology, split into 3 teams, with oral communication and code were written in German.

### Accomplishments:

1. Established positive team communication with German colleagues, as being the first non-German team they worked with
2. Successfully delivered quarterly product releases



/\* PROJECTS \*/

## CROC.SPACE JEKYLL BLOG

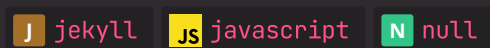
Mar 2017 - Apr 2017

[croc.space](https://croc.space)

At the time of writing this (June 2017), this project is used as [croc.space](https://croc.space) blog.

Simple blog with static pages created from markdown processing with Jekyll.

- Jekyll used to create static .HTML pages from .MD or .MARKDOWN formats
- GitHub used for building and hosting ( <https://lzrmihnea.github.io/> , <https://github.com/lzrmihnea/lzrmihnea.github.io> )
- HTTPS added and redirect towards secure connection from HTTP
- MailChimp used for subscriptions
- Disqus used for comments



## INFOTRANSPUB

Oct 2016 - Jan 2017

[github.com/lzrmihnea/infotranspub-backend](https://github.com/lzrmihnea/infotranspub-backend)

Self-organized project which aims to centralize all information regarding public transport at a national level.

Project aims to create a model that corresponds to General Transit Feed Specification model, used also by Google. ( <https://developers.google.com/transit/> ) This way, an API for the national public transport systems of Romania could be provided for other applications and our applications, and used by citizens and visitors of Romania.

The aim is to integrate the public transport systems from as many cities and agencies as possible into our API.

Team communication: Slack

Project organization: JIRA for Scrum Agile board and Wiki

Technologies:

- Spring for integration, rest api, dependency injection
- JPA for ORM mapping, with DB tables generated from there
- PostgreSQL DB
- Git repository



spring



java



hibernate



junit



mockito



maven



gradle



microservices

## PORTAL

Mar 2014 - Nov 2016

[linkedin.com/in/lzr-mihnea/overlay/urn:li:fsd\\_profileProject:\(ACoAAA3j5dQBNH0g8NS\\_HNqNtdUfKdZZwY\\_6MUK,1449099508\)/creators?profileUrn=urn%3Ali%3Afsd\\_profile%3AACoAAA3j5dQBNH0g8NS\\_HNqNtdUfKdZZwY\\_6MUK](https://www.linkedin.com/in/lzr-mihnea/overlay/urn:li:fsd_profileProject:(ACoAAA3j5dQBNH0g8NS_HNqNtdUfKdZZwY_6MUK,1449099508)/creators?profileUrn=urn%3Ali%3Afsd_profile%3AACoAAA3j5dQBNH0g8NS_HNqNtdUfKdZZwY_6MUK)

Complex cluster of inter-connected financial applications for banking environment.

Technologies involved:

- Eclipse core for UI components
- Spring and JEE for dependency injection
- OSGi and Ivy for frameworks
- CruiseControl, Sonar for infrastructure
- JIRA and internal Wiki for organization
- Oracle and DB2 databases
- Mercurial repos
- Agile SCRUM methodology

Team-working and communication were necessary and imperative for the projects.



/\* EDUCATION \*/

## TECHNICAL UNIVERSITY OF CLUJ NAPOCA

Master's Degree, Electrical and Electronics Engineering / Jan 2013 - Jan 2015

## TECHNICAL UNIVERSITY OF CLUJ NAPOCA

Bachelor of Engineering (B.Eng.), Automation and Computer Science /  
Jan 2009 - Jan 2013

## UNIVERSITÉ POLYTECHNIQUE HAUTS-DE-FRANCE

Mechanical Engineering / Jan 2013 - Jan 2013

Studied for a semester with an Erasmus scholarship, in the purpose of realizing my bachelor diploma thesis. Technologies used:

- MATLAB, with notable used libraries: Simulink, GUIDE.









/\* CERTIFICATES \*/

Certified Trainer  
Apr 2019

Oracle Certified Associate, Java SE  
8 Programmer  
Jun 2017

Cambridge ESOL Level 2 Certificate  
Dec 2008

/\* PROGRAMMING LANGUAGES \*/

 Java  JavaScript  JSON  CoffeeScript  CSS  C  C++  Shell

/\* TECHNOLOGIES & LIBRARIES \*/

 Spring  Mockito  ExpressJS  mongoose  NodeJS  JUnit

 node-mongodb-native  Gulp  SLF4J