

ALI BOUZAR

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Java Developer

Detail-oriented software developer with about 5 years of professional experience making key contributions to the implementation of Java-based solutions through all Software Development Life Cycle tasks, including user stories, design, coding, testing, and deployment. Solid analytical skills with a talent for thorough test automation, proactive problem solving, research, and documentation. Technology focus includes Java, Spring (Boot, Cloud), microservices, Command Query Responsibility Segregation (CQRS), Restful, Apache Kafka, My SQL, MongoDB, PostgreSQL, MSSQL, Hibernate, Jenkins, DevOps, JWT, Spring Security, OAuth2, Agile/Scrum, Unit/Integration testing.

Major Phases of SDLC • Object-Oriented Java Programming • DevOps • Database Development
Microservices • Data Structures & Collections • Dependency Injection • API Integration

Languages: Java, C#, Python

Web: HTML5, CSS3, JavaScript, ReactJs, AJAX, JSON, XML, jQuery, Bootstrap.

Web Services: RESTful Web Services, Spring Rest, JSON

Web/App Servers: Apache Tomcat, Jetty.

Frameworks: Spring (Boot, Cloud, IOC, MVC, REST, Security, ORM, Cloud), Microservices, JPA, Hibernate.

Databases: PostgreSQL, MSSQL, MySQL, MongoDB, H2 DB.

Design Patterns: Singleton, Factory, Builder, Façade, SOLID, SDLC, Test Driven Development (TDD), Behavior Driven Development (BDD).

SDLC: Agile/Scrum, Kanban, Waterfall Model, Iterative Model.

Tools: Eclipse, Spring Tool Suite, VS Code, Maven, Gradle, Git, Bitbucket, JIRA, Jenkins, Confluence, SonarQube, Sonar Cloud, Apache Kafka, Docker, MySQL workbench editor, Swagger UI.

Platforms: Windows, Mac OS, Linux.

Cloud Platforms: Amazon Web Services (S3, Lambda, API Gateway, Dynamo DB).

Testing: Junit, TestNG, Mockito, Integration Testing, TestRestTemplate, Sikuli, Selenium WebDriver, Postman, JMeter.

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **master's degree in computer science** (Available full-time, willing to relocate, W-2 employment).

GLOBALLOGIC ZAGREB, Zagreb, Croatia • 06/2021 - 10/2022

Top digital product engineering company offering product consulting and software engineering.

Software Engineer

Key contributor to backend development and DevOps.

- Implemented up to 40% user accounts and different roles and permissions such as Admin, Vendor, manager, Finance and IT Support with configuring authorization and authentication server using OAuth2 protocol.
- Used Java, Spring boot, Spring Data JPA, Hibernate ORM, H2, MySQL to design and implement business operations for Vendor Onboarding microservice and Vendor Catalog microservice to manage and process of onboarding new vendors in the system.
- Implemented 100% Spring Cloud Eureka Discovery Service for User Service, Vendor Service, and Catalog Service enabling them to register themselves with the Eureka server upon startup.
- Develop about 60% unit and integration tests, using JUnit and MockMVC frameworks on the business operations within the Vendor and the Vendor catalog microservices, ensuring proper functionality and expected outcomes while considering the User's role and permissions.

- Implement Spring Cloud OpenFeign to define declarative REST clients in the Vendor microservice through an interface-based annotation to invoke RESTful endpoints within the Vendor Catalog and implement WebClient in Vendor Catalog to create a non-blocking and reactive HTTP requests providing an asynchronous communication between Vendor and Vendor Catalog microservices.
- Implement API Gateway as an entry point which enables routing and load balancing the client requests to the Vendor, Vendor Catalog and User microservices, and used the caching mechanism for the responses that comes from the User, Vendor or Vendor Catalog microservices to minimize redundancy to the same endpoints and reduce latency for the requests.
- Use Apache Kafka message brokers to send a notification email to alert users such as Manager and Financial users for a new vendor registration and a welcome email to the new registered vendor.
- Utilized Sleuth Zipkin to search and trace endpoint requests between the Vendor and Vendor Catalog microservices, enabling understanding of the sequence of calls and identification of encountered errors.

MAURER ELECTRONICS SPLIT, Split, Croatia • 09/2017 - 05/2021

Development and research hub of Bundesdruckerei GmbH.

Software Engineer

Participated in development of key components for Java-based systems.

- Extracted and defined tasks based on user stories.
- Designed and implemented about 35% RESTful APIs for the 'Company' and the 'Administrator' modules using Java and Spring Boot, Spring Data JPA, Hibernate, Spring Validation, H2 DB and Oracle DB which enabled the business operations for the company profile management.
- Developed features such as file storage allocation, extra storage allocation and the maximum Bdrive device for each company to securely store files in the Bdrive cloud system.
- Write 35% of the unit and integration tests using Junit and MockMVC frameworks for each REST endpoint from the company and the administrator modules to ensure the proper functioning and the desired outcomes.
- Fixed about 66% of the validation related bugs that were raised by the QA team on the file storage allocation, the extra storage allocation and the maximum Bdrive device fields resulting the proper functionality of each data field.
- Created an automated deployment pipelines using Jenkins to ensure the build, deployment, testing and release processes for the newly built features which enhances Continuous integration, Continuous delivery.
- Clean and refactor code using SonarQube after committing/pushing code (refactor existing code or develop new feature) ensuring a more understandable code, efficient and sustainable development practices.
- Implemented Command Query Responsibility Segregation (CQRS) to separate the command REST APIs from the Query REST APIs in both the 'Company' and the 'Administrator' modules by following database per service pattern and use Apache Kafka to achieve an asynchronous communication between the Query service and the Command service.

EDUCATION

Master of Science in Computer Science

Maharishi International University – Fairfield, Iowa

Key Courses: *Fundamental Programming Practices; Modern Programming Practices; Software Architecture; Enterprise Architecture; Algorithms; Big Data; Cloud Computing; Applied Software Development; Database Management Systems; Web Programming*

Bachelor of Science in Information Technology

Faculty of Organization & Information, University of Zagreb – Varazdin, Croatia