

Hussein Abboud

Senior Software Engineer

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Beirut, Lebanon



Profile

Senior Software Engineer with strong experience in building scalable microservices and distributed systems using Java (Spring Boot, Spring Cloud) and modern backend technologies and working experience in frontend development using React. Proven expertise in API design, data modeling, and high-performance backend architectures across MongoDB, MySQL, and Redis environments. Experienced in cloud infrastructure, containerized deployments, and CI/CD pipelines using Docker, Kubernetes, and Jenkins. Adept at solving complex technical challenges while collaborating effectively within Agile development teams to deliver reliable, production-grade systems.

Experience

Senior Software Engineer | CloudLinks | Beirut, Lebanon

Feb 2021 – Present

- Designed and managed e-commerce and social media marketing workflow automation using Camunda BPM, enabling scalable orchestration of business processes.
- Developed microservices-based architectures using Spring Boot and Spring Cloud to support an email and SMS marketing platform.
- Designed and implemented RESTful APIs for business data modeling within the Document Management System (DMS).
- Built GraphQL queries and mutations to provide flexible data access across services.
- Implemented web scraping and text mining solutions using NLP frameworks including Stanford NLP, WikiNeural, and GATE.
- Produced well-structured, maintainable, and thoroughly documented code, adhering to software engineering best practices.
- Worked extensively with Hibernate and JPA across multiple databases including MySQL, Redis, and MongoDB.
- Integrated RabbitMQ as a message broker to enable asynchronous communication between microservices.
- Developed background worker services for language detection, NLP processing, and OCR tasks.
- Structured and maintained multi-module microservice projects using Maven for efficient dependency management and builds.
- Configured OpenFeign clients to facilitate seamless communication between distributed services.
- Researched and implemented technology solutions and architectural strategies to address evolving business challenges.

- Applied Agile methodologies throughout development cycles using tools such as Jira, Bitbucket, Swagger, Confluence, and Trello.
- Deployed containerized services to Kubernetes clusters using Helm charts on AWS and DigitalOcean infrastructure.
- Built and maintained Docker images, publishing them to container registries including AWS ECR and DigitalOcean Container Registry.
- Designed and implemented CI/CD pipelines using Jenkins for automated builds and deployments across Java, PHP, and frontend projects.
- Implemented secure authentication mechanisms using Spring Security and Keycloak, enabling JWT-based identity and access management.
- Designed and developed a multi-tenant migration service using Mongock, enabling seamless database migrations across multiple tenants and eliminating recurring subscription costs for the client.
- Developed analytical and financial reports (Sales Reports, Sales Summaries, and Overview Dashboards) using MongoDB queries and aggregation pipelines.
- Implemented system auditing capabilities using JaVers to track and manage data changes.
- Developed and maintained core business logic and backend services ensuring reliability and scalability.
- Implemented cross-cutting logging mechanisms using Spring AOP, AspectJ, and SLF4J for enhanced observability across services and repositories.
- Created and maintained version-controlled MongoDB migration scripts using Mongock, incorporating rollback mechanisms to ensure data integrity.
- Managed application configuration across environments using Spring Profiles.
- Configured Jackson to efficiently serialize and deserialize complex data structures within service communications.
- Conducted code reviews and provided constructive feedback, ensuring adherence to coding standards and improving overall code quality.
- Mentored and onboarded junior developers, guiding them through project architecture, coding standards, and development workflows.
- Participated in daily stand-ups and cross-team discussions to track project progress, resolve blockers, and coordinate tasks.
- Contributed to sprint planning and estimation sessions, helping define sprint objectives and allocate development efforts.
- Successfully refactored a monolithic single-tenant service into a scalable multi-tenant architecture, implementing tenant-aware data sources, context resolution, and isolation strategies (schema/database per tenant).
- Led mentorship initiatives for junior developers by assigning tasks aligned with learning objectives, reviewing code for best practices, and integrating them into active production environments.
- Diagnosed and resolved critical backend issues through detailed log analysis, profiling tools, and data investigation, improving system reliability and performance.
- Developed React and Next JS based user interfaces integrating with backend REST and GraphQL APIs.
- Implemented component based UI architecture with reusable react components and client side routing.
- Configured Next JS environments and build setups, including environment variables, project structure and API integrations.
- Integrated frontend applications with backend microservices

Web developer | Intaglio Pro| Beirut, Lebanon

Jun 2020 – Feb 2021

- Analyzed project and client requirements to determine technical specifications for website development, including e-commerce functionality, custom scripts, and WordPress plugin development.
- Collaborated closely with clients to understand business objectives and translate them into effective technical solutions.
- Leveraged PHP, SQL, JavaScript, and backend libraries to build dynamic and scalable web applications.
- Developed responsive websites using HTML, CSS, JavaScript, and jQuery.
- Designed, managed, and optimized databases and mail server configurations to support web applications.
- Built and exposed REST APIs to enable third-party integrations and external service communication.
- Implemented web scraping solutions to collect and process data from external sources.
- Developed e-commerce and blogging platforms using WordPress, including theme customization, plugin development, and feature enhancements.
- Deployed web applications to production environments and configured server infrastructure using Apache and Nginx, including domain mapping and hosting setup.

Education

BS in computer science

Lebanese University, Hadat Campus, Beirut

2018 - 2021

Certification

DevOps Engineer Training Program (Nov 2022 - Mar 2023)

Forward MENA - Simplilearn | online course

[Certificate](#)

AWS Certified Cloud Practitioner

Amazon Web Services Training and Certification

[Certificate](#)

Languages

English - Full working proficiency

Arabic - Native

Skills

<u>Jira</u>	<u>Zipkin</u>	<u>mysql/sql</u>	<u>Redis</u>	<u>Camunda</u>	<u>Jenkins</u>	<u>spring framework</u>
<u>bash/shell</u>	<u>React JS</u>	<u>mongodb</u>	<u>nlp tools</u>	<u>Javascript</u>	<u>docker</u>	<u>Apache/ nginx</u>
<u>Terraform</u>	<u>Ansible</u>	<u>aws</u>	<u>HTML5/CSS3</u>			