Jakub Adamczyk
Pulawy, Lubelskie, Poland
Ja1127.p.dev@gmail.com
https://www.linkedin.com/in/jakub-adamczyk-b7a328372/
+48 573 503 700
Full Stack Engineer |Spring Boot, Node.js, Asp.net |React.js, Vue.js, Angular.js

---

SUMMARY:
Senior Full-Stack Developer with **9+ years** of experience, specializing in building and optimizing cloud-native applications using **Asp.Net**, **Java**, **Spring Boot**, and **Kubernetes**. Led the design and implementation of microservices architectures for enterprise-level projects, integrating **Kafka** to enable real-time data processing and scaling deployments across **AWS** infrastructure. Adept at driving system performance, ensuring high availability, and delivering solutions tailored to complex business needs.

SKILLS & TECHNOLOGIES:

- **Programming Languages:** Java (up to Java 22), JavaScript (ES6+), TypeScript, Scala, C++, C#, Python
- **Databases:** MySQL, Oracle, MongoDB, PostgreSQL, Redis, DB2, GraphQL
- **Frameworks / Libraries:** Spring (Boot, MVC, Security, Cloud), Hibernate, Angular, React.js, Vue.js, Next.js, Svelte, Backbone.js, JPA, Apache Camel, ASP.NET
- **Messaging & Streaming Platforms:** RabbitMQ, Apache Kafka
- **Tools:** Git, Docker, Jenkins, Kubernetes, Maven, Gradle, Grunt, PuTTY, WinSCP, Swagger UI, TestNG
- **Cloud Platforms:** AWS (EC2, S3, RDS, Lambda, DynamoDB, CloudWatch), Microsoft Azure (App Service, Functions, Kubernetes Service), GCP
- **Testing Frameworks:** Junit, Mockito, Cypress, Jest, Cucumber, Selenium, JMeter
- **Software Architecture:** Microservices, Event-Driven Architecture, Test-Driven Development (TDD), Model-View-Controller (MVC)
- **CI / CD:** Jenkins, Docker, Kubernetes, Azure DevOps, Terraform, GitHub Actions, Bitbucket Pipelines
- **Web Technologies:** HTML5, CSS3, Thymleaf, Ajax, jQuery, JSON, Bootstrap, REST, SOAP, XML, WSDL, JAXB, JAX-WS
- **Version Control:** Git, Jira, GitHub, GitLab, Subversion, Bitbucket
- **Scripting Languages:** Shell Scripting, Bash, Perl, PL/SQL
- **Other Skills:** Performance Tuning, Load Balancing, Scalability, Security Best Practices (OAuth2, JWT), Data Modeling, Database Design, Agile Methodologies (Scrum, Kanban), Project Management (Jira, Confluence)

PROFESSIONAL EXPERIENCE:
Senior Fullstack Developer| **10Clouds** | **Wroclaw, Poland** | May 2023 – June 2025

- Led the design and development of scalable microservices and RESTful APIs using Java 17 and Spring Boot 3 ensuring efficient data processing and retrieval for patient records, while integrating with frontend systems built using Angular. This enabled secure and fast access to patient data across different departments.
- Utilized advanced algorithms and data structures to enhance the system's ability to handle large volumes of medical data while maintaining performance.

- Collaborated closely with frontend teams to build responsive and user-friendly interfaces using Angular, ensuring seamless interaction with patient data across desktop and mobile devices. Implemented reusable components to accelerate development and enhance user experience.
- Developed complex data visualization dashboards using Angular for real-time patient health monitoring, providing

medical staff with quick insights into vital health metrics like heart rate and blood pressure, driven by real-time data streamed through Kafka.
- Implemented state management using Redux in React applications to ensure efficient handling of patient data updates and improve application performance when managing high volumes of patient records.
- Integrated AWS services such as AWS Lambda, S3, and RDS for scalable infrastructure and data storage, optimizing resource utilization for secure patient data management.
- Deployed microservices on Kubernetes and Docker, ensuring containerized management and smooth scaling of applications.
- Designed and implemented a real-time patient monitoring system using Kafka to handle continuous streams of health data from IoT devices. This enabled near-instant processing and analysis of high-volume health metrics like heart rate and blood pressure, providing healthcare providers with immediate insights and alerts.
- Leveraged AWS SQS to manage reliable message queuing between microservices responsible for handling patient record updates, ensuring asynchronous processing and high availability even during system failures.
- Utilized AWS SNS to broadcast critical patient alerts and notifications in real time to medical staff, ensuring immediate attention to emergency situations. This was integrated with mobile devices and monitoring dashboards to deliver alerts across different platforms.
- Implemented caching strategies using Redis and AWS ElastiCache to speed up data access for frequently used patient records.
- Conducted load testing using JMeter to validate the system's ability to handle high patient data loads during peak times, ensuring continuous availability.
- Optimized database queries and interactions, reducing data retrieval times and improving the overall performance of the patient record services.
- Set up CI/CD pipelines using Jenkins and AWS CodePipeline, automating build, test, and deployment processes to streamline development cycles. Used Docker to containerize microservices, ensuring seamless deployment across different development and production environments.
- Integrated monitoring and logging tools such as CloudWatch and ELK Stack to monitor system health, enabling quick detection and resolution of issues.
- Enforced data encryption at rest and in transit using AWS KMS and TLS/SSL protocols to ensure the security and privacy of sensitive patient information.
- Configured AWS GuardDuty and IAM policies to monitor security compliance and enforce best practices for healthcare data protection.
- Successfully migrated patient data from legacy systems to modern RDS databases with minimal downtime and no data loss during the transition.
- Utilized AWS Data Pipeline to automate data migration processes, ensuring seamless data transfers with real-time validation.
- Conducted post-migration data integrity checks to ensure accuracy and consistency of patient records after transitioning to the new system.
- Collaborated with the front-end team to develop user-friendly interfaces using Angular to provide seamless interaction with patient data across devices.

Fullstack Developer | **Ava Labs** |**New York, USA** | June 2021 – April 2023

- Developed financial platform using Java, Spring Boot, Hibernate, and PostgreSQL, ensuring reliable transaction processing and data management.
- Worked closely with the Product Owner to refine user stories and acceptance criteria, ensuring that each feature delivered maximum value to users.
- Implemented advanced security measures using Spring Security, OAuth2, and JWT to enhance the security of financial platforms, ensuring robust transaction processing, secure data management, and reduced breaches through effective authentication and authorization.
- Integrated RBAC (Role-Based Access Control) with microservices architectures using Spring Security, utilizing RESTful APIs to enforce access control policies across distributed systems.
- Leveraged Angular and React for front-end development, creating dynamic, reusable components and optimizing user experience and engagement, which enhanced application performance and maintainability.

- Experienced in database design, development, and management using MongoDB, Oracle PL/SQL, and PostgreSQL to ensure robust and secure financial data management.
- Managed database schema changes using Liquibase, automating and version-controlling database migrations to ensure consistent and reliable deployments across development, staging, and production environments.
- Optimized database performance and scalability by fine-tuning Hibernate configurations and using caching strategies such as Second-Level Cache.
- Utilized Java 8 features like Lambda expressions and Stream API for bulk data operations on collections, increasing the performance of the financial application.
- Managed infrastructure provisioning and configuration using Terraform, ensuring consistent environments across development, testing, and production stages.
- Deployed containerized applications with Docker and orchestrated microservices with Kubernetes, improving application resilience and scalability.
- Implemented CI/CD pipelines using tools like Jenkins, GitLab CI/CD, or GitHub Actions to automate the build and deployment process.
- Conducted performance evaluations using JMeter, Selenium, enhancing application performance by 25%.
- Used Mockito for mocking dependencies in unit tests, allowing for isolated testing of individual components.

Fullstack Developer | **Parity Technologies** | **Berlin, Germany**| July 2020 – May 2021

- Developed and maintained robust e-commerce features using Java, Spring, and Hibernate, implementing key OOP concepts, exception handling, multi-threading, collections framework, concurrency control, JDBC, and Java I/O for efficient backend services.
- Leveraged AWS Lambda for event-driven processing, achieving a 40% reduction in operational costs, while optimizing SQL queries and database performance to ensure fast and reliable data retrieval.
- Designed and developed user interfaces with Angular and HTML/CSS, enhancing front-end experiences and integrating complex data relationships and inheritance mapping with JPA annotations for accurate domain model representation.
- Utilized Docker and Kubernetes (GKE) for containerizing and deploying applications, improving scalability and reliability, and implemented GraphQL for efficient data querying and processing, optimizing data management workflows.

Fullstack Developer | **Li Ning Sports Technology** | **Singapore, Singapore** | July 2016 – May 2020

- Developed high-load Spring Boot applications for financial data processing with a focus on performance and scalability.
- Created Angular-based dashboards to display real-time analytics and data visualizations for financial decision-making.
- Improved system fault tolerance by implementing failover and recovery mechanisms in distributed environments.
- Optimized cloud infrastructure using AWS, increasing scalability and reducing operational costs.

EDUCATION:

Nanyang Technological University Singapore | **Bachelor's Degree**, **Computer Science** (2011 - 2015)