

PATRYK NIZIOŁEK



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SUMMARY

Software Developer with 5 years of experience specializing in object-oriented programming and backend development. Experienced in designing and implementing scalable backend systems using Java, Spring, Hibernate, and related JEE open-source frameworks. Strong knowledge of database design and performance optimization, including PostgreSQL, MongoDB, and Neo4j.

Skilled in delivering maintainable, secure, and scalable solutions in Agile and Scrum environments. Familiar with CI/CD automation, containerized deployments, and cloud-based production systems. Strong analytical mindset, ownership-oriented approach, and a continuous focus on improving software architecture and engineering practices.

Currently focused on further developing backend expertise while gradually expanding full-stack capabilities, supported by practical use of AI-assisted tools for frontend prototyping and UI development.

SKILLS

- | | | |
|---------------|---------------------------|-----------------|
| • Java | • Junit | • Junit |
| • Spring Boot | • JavaScript(basic) | • Kafka |
| • SQL | • Selenium tests(basic) | • Jira |
| • Docker | • Angular(beginner/basic) | • Slack |
| • Aws | • React(beginner/ basic) | • Ci/cd runners |

EXPERIENCE

Transition Technology, Poland (Remote)

Software Developer, 07/2021 – 06/2025

In early projects, I collaborated with small, agile teams and also led a project independently, where I delivered a fully functioning platform extension for air carrier company. The goal was to implement secure REST API services for integrating with client applications. The project required a strong emphasis on security and API design best practices. I had the opportunity to gain experience working with large manufacturing facilities, for instance, in developing a layout for displaying KPIs on large screens in production lines. During these projects, I collaborated with international teams and effectively communicated in English.

Following this, I gained experience in an R&D project for watch company within a Scrum framework, actively participating in all Agile ceremonies (daily stand-ups, grooming sessions, sprint planning). This project, developed entirely in java, included dedicated QA and code review teams focused on specific modules, which allowed me to understand how to scale Feature Development and integrate efficiently into a large team.

I was part of a Greenfield project, working from inception to MVP. The platform is designed for system integration and workflow automation, with responsibilities including the design and implementation of Kafka-based messaging, REST and SOAP

services. I have been hands-on with technologies such as Spring, Kafka, Docker, React, and Angular to ensure a modern, scalable architecture.

Throughout my journey, I have honed my ability to deliver both new feature requests and enhance existing systems with new functionalities.

Mennica Polska, Poland (Hybrid)

Software Developer, 06/2025 – Current

Maintenance Project (Ticketing Systems — Two Major Polish Cities)

Full ownership of maintenance and development of two production backend systems for public transportation ticket sales. Designed and implemented integration modules for communication with a central system. Performed database optimization, including query tuning, indexing, and performance improvements. Refactored legacy code into a more modern, flexible, secure, and high-performance architecture. Ensured stability and reliability of business-critical systems. Acted as the final line of technical support in case of production incidents, system failures, and critical bugs. Implemented minor enhancements and fixes in the web-based administrative panel using Angular. Operated and developed containerized production applications deployed in the AWS cloud environment.

Software Developer, 02/2026 – Current

Actively participated in building a new, scalable ticket sales platform from the ground up.

One of the main Java Backend Developers in a 3-person development team working in Scrum. The project is based on a microservices architecture using Spring Boot, Keycloak, Docker, AWS, and the LGTM observability stack.

Responsibilities and achievements:

- Co-designed the backend microservices architecture together with a senior technical architect, focusing on scalability, reliability, and uninterrupted ticket sales.
- Designed and implemented backend components for a ticketing application using Java and Spring Boot.
- Designed the communication flow between the mobile application, BFF layer, and backend services, including token refresh mechanisms and Keycloak integration.
- Worked extensively with Keycloak, OAuth2, and OIDC, including adding external OAuth providers, configuring authentication flows, and customizing UI and logic through Keycloak plugins.
- Implemented additional authentication steps, including SMS code verification.
- Built business logic responsible for refreshing operator-provided data, such as ticket price lists, while handling multi-city support, data validity periods, failure resilience, and continuous ticket sales requirements.
- Integrated microservices using OpenFeign and communicated with external systems through REST Client.
- Created dynamic API documentation using Swagger / OpenAPI, including support for cookie-based authentication provided by an OpenResty + Lua gateway layer.
- Created and optimized Dockerfiles, including separating the application build stage using JDK from the runtime stage using JRE to reduce Docker image size.
- Built a CI/CD pipeline in GitLab CI using GitLab Runners, with automated Docker image builds and publishing to Amazon ECR.
- Worked with the application hosted on an AWS Linux server, including deployment, troubleshooting, and service diagnostics.
- Helped introduce observability using the LGTM stack: Grafana, Prometheus, and Loki.
- Took ownership of technical delivery when the senior developer / architect had limited availability.

- Supported onboarding of a new developer by assigning tasks, reviewing code, and ensuring code quality before merging changes into the main branch.

Technologies:

Java, Spring Boot, Spring Cloud, Microservices, Keycloak, OAuth2, OIDC, REST, OpenFeign, Swagger / OpenAPI, Docker , GitLab CI/CD, GitLab Runners, AWS, Amazon ECR, Linux, Grafana, Prometheus, Loki, Scrum.

EDUCATION

Politechnika Świętokrzyska
Kielce University of Technology

Bachelor of Computer Science, Poland
Graduated in 02/2022

WEBSITE PROFILES

<https://www.linkedin.com/in/patryk-nizio%C5%82ek-0848731a9/>



<https://github.com/PatNiz>

LANGUAGES

Polish: Mother tongue

English: Upper Intermediate (B2)

INTEREST**Boxing**

Sport full of determination, develops self-discipline and mental endurance. Boxing has taught me more than just how to throw a punch. It's instilled in me the value of dedication, perseverance, the importance of regularity and constantly striving for improvement. Boxing has shaped me into a disciplined person.

**Motorization**

Fast driving of cars and the pursuit of greater engine power require precision. It's a fusion of technique, understanding vehicle mechanics, and tuning. This passion has taught me to focus, quick decision-making, and how to handle pressure. On the track, there's no time for hesitation.

**Scuba diving**

My exhilarating escape into a world of wonder beneath the waves adventure that allows me to explore the depths of the sea, discovering its hidden treasures and mesmerizing beauty. Beyond the adrenaline rush, scuba diving has taught me valuable life lessons-patience, self-control and the importance of teamwork.

**Microprocessors**

I like creating projects based on Arduino and ESP32 in combination with various electronic components. I enjoy experimenting and developing ideas, crafting intriguing small-scale that harness. One of the most interesting projects I've worked on was developing and implementing an intelligent remote irrigation system for farmland. It optimizes water usage and automates watering based on real-time soil moisture data and weather information from online platforms. The system also allows for remote control via a web platform, with built-in protection against failures and adverse weather conditions.

PORTFOLIO UI/UX

momentia.pl

Static, serverless website built with Astro and deployed on Cloudflare Pages. Optimized for minimal JavaScript, local SEO, performance, accessibility, and scalable landing page generation for Polish service/location-based search results. Prepared for Cloudflare R2 / CDN-based image delivery.

pyreaneanpuppies.com

Frontend website project focused on responsive UI, structured content presentation, and SEO-friendly implementation.

CERTIFICATIONS

- Cisco Networking Academy CCNA
- ThingWorx Academy (Industrial Connectivity, DevOps, Cloud IoT Azure)
- Troy Miles "Kotlin Essential Training"
- Matt Greencroft "Build Spring Boot Apps with the Kotlin Programming Language"
- Cypress (JavaScript) –Web app test automation by Sii Training Piotr Dziubiński
- Windchill Academy –Customization Windchill(Java programing), JUnit, Jenkins
- AWS Partner: Sales Accreditation (Business)
- AWS Partner: Accreditation(Technical)
- AWS Partner: Cloud Economics Accreditation