



We make IT  **JCommerce**

TECHNOLOGICAL COMPETENCES  
OFFERED BY JCOMMERCE

## Table of contents

.NET.....	2
Java.....	4
PHP.....	6
Golang.....	10
Front-End.....	10
Business Intelligence.....	12
Mobile.....	14
Quality Assurance.....	15
E-commerce.....	17
Big Data.....	17
Business Analysis.....	18
PLC & HMI.....	19
Apple Device Management.....	19
AWS (Amazon Web Services).....	20
Microsoft Azure.....	22
GCP (Google Cloud Platform).....	23
RPA (Robotic Process Automation).....	24
Machine Learning.....	25
DevOps.....	25

## .NET

---

### Programming languages

- C#

### Frameworks

- .NET 5.0
- .NET Framework 4.7, 4.6.2, 4.5, 4.0
- .NET Core 1.x, .NET Core 2.x, .Net Core 3.x

### Architectures

- Hexagonal
- Microservices

### Designs

- EDA
- DDD
- CQRS

### Applications

- Web applications
  - ASP.NET MVC
  - ASP.NET CORE MVC
  - ASP.NET WebForms
  - JavaScript
    - jQuery
    - TypeScript
    - Knockout.js
    - React
    - Angular
- Desktop applications
  - Windows Presentation Foundation (WPF)
- Third part controls
  - Infragistics
  - DevExpress
  - Telerik
- Mobile applications
  - Xamarin

- Distributed applications
  - Web API
  - Windows Communication Foundation (WCF)
  - Web Services
- Azure
  - IaaS
    - Virtual Machines
  - PaaS
    - App Services (Docker Container)
    - Service Bus
    - KeyVault
  - SaaS
    - Cosmos DB
    - Azure SQL
  - Monitoring
    - Application Insight
    - Monitor
  - Azure Active Directory
  - Serverless
    - Azure Function

### Servers

- IIS 10/8.5/8.0/7.5/7.0/6.0
- MS SQL Server 2017/2016/2014/2012/2008/Express

### Microservices/ DevOps

- Docker (DockerFile, DockerCompose)
- ARM Templates
- Application Services (Docker Container)

### Message queues

- RabbitMQ
- Azure Service Bus

### Tools

- IDE
  - Visual Studio
  - Visual Studio Code
- Testing

- NUnit
- XUnit
  
- **Continuous integration**
  - Cruise Control.NET
  - Build Master
  - Azure DevOps
  - Jenkins
  
- **Repositories**
  - TFS/TS
  - SVN
  - Git
  
- **Logging**
  - NLog
  - Log4Net
  - Serilog
  
- **Reporting**
  - Reporting Services
  - Crystal Reports
  
- **ORM**
  - Entity Framework
  - NHibernate
  
- **Databases**
  - Integration Services (SSIS)
  - Analysis Services (SSAS)
  - Reporting Services (SSRS)
  - Microsoft SQL Server
  - Azure SQL
  - Azure Cosmos DB
  - InMemory OLTP
  - MongoDB
  
- **Other**
  - Elasticsearch

Java

---

## Programming languages

- Java, Groovy, Kotlin, Scala

## Architectures

- SOA
- Microservices
- Multi layer/Hexagonal

## Designs

- DDD
- CQRS
- CDC
- BDD

## Frameworks and libraries

- Common
  - Testing (TestNG, JUnit, Spock)
  - Mocking (EasyMock, Mockito)
- Back-End
  - XML and JSON processing (JAXB, JAXP, XSD, Jackson, GSON)
  - Data access
    - SQL (JPA, Hibernate, JDBC, Spring Data, JOOQ)
    - NoSQL (MongoDB Java Driver, Mongojack)
  - Integration frameworks
    - REST Services (JAX-RS, Jersey)
    - Web Services (JAX-WS, Apache CXF, SOAP)
    - Apache Camel
    - Spring (Boot, Cloud, MVC, Security, Integration, WebFlux)
    - Message Brokers (JMS, Apache ActiveMQ, Kafka)
- Microservices/ DevOps
  - Docker (Swarm, Compose)
  - Vagrant
  - Kubernetes/Helm
  - Spring Cloud Gateway
  - Netflix API
  - Prometheus, Graphite
  - Ansible
  - Service Mesh (Envoy, Istio, Traefik)
- Workflow automation
  - BPMN

- Camunada

## Web servers

- Apache Tomcat
- Jetty / Netty / Undertow
- JBoss AS
- GlassFish
- WebSphere

## Tools

- IDEs
  - Eclipse
  - NetBeans
  - IntelliJ IDEA
- Build tools
  - Maven
  - Gradle
- Continuous integration
  - Jenkins
  - Bamboo
  - GitlabCI
  - BitBucket Pipelines
  - GitHub Actions
- Version control systems
  - Git
  - SVN
- Programming
  - JRebel
  - Atlassian Stack (Bitbucket, Stash)
  - Gerrit

## PHP

---

### Programming languages

- PHP 5.x, PHP 7.x, PHP 8.x

## Frameworks

- Symfony 2, 3, 4, 5
- Laminas (formerly Zend Framework)
- Laravel 4, 5
- Silex
- Slim

## Template systems

- Twig
- Smarty
- Blade
- PHPTAL

## CMS systems

- Sulu
- Joomla
- Drupal
- WordPress
- WooCommerce
- Magento
- Prestashop
- TYPO3

## Web technologies

- HTML
  - Responsive web design
  - Mobile first design
- JavaScript
  - jQuery
  - React
  - Angular 2+
  - Vue
- CSS3 (media-queries)
  - Bootstrap Framework
  - Foundation Framework
- Web applications
  - Progressive Web Pages (PWA)
  - Accelerated Mobile Pages (AMP)
  - Single Page Application (SPA)



## Servers

- Application servers
  - Apache
  - Nginx
  - IIS
- AMP packages
  - LAMP
  - WAMP
  - XAMPP
- Database servers
  - SQL: MySQL, PostgreSQL, MSSQL
  - NoSQL: MongoDB, Redis, Cassandra, RocksDB, Hadoop

## Search platform

- Elasticsearch/Elastic
- SOLR
- Lucene

## Message queues

- RabbitMQ
- ActiveMQ
- Kafka

## External libraries

- Composer

## Web services

- GraphQL
- REST
- Open graph
- Facebook SDK
- Google API
- Twitter API

## ORM

- Doctrine
- Eloquent
- Propel

### IDE tools

- PhpStorm
- NetBeans
- Visual Studio Code
- Eclipse

### Testing and profiling

- Unit Testing
- PHP Unit
- Hamcrest
- Mockery
- Xdebug
- XHProf
- TDD
- BDD
- Behat
- Selenium
- PHP CodeSniffer
- PHP Stan
- PSALM

### Continuous Integration

- Jenkins

### Reports

- InfluxDB
- Grafana
- Graylog

### Version control systems

- Git

### Other

- Docker
- Kubernetes
- Vagrant
- Memcache(d), Varnish
- AWS
- Google Cloud Platform
- Azure

## Golang

---

### Web framework

- Revel
- Gin

## Front-End

---

### Technologies

- JavaScript
- HTML5
- CSS3
- HTTP
- JSON
- DOM
- AJAX
- WCAG
- ARIA
- Browsers (Chrome, Firefox, Edge, Safari, Opera, Internet Explorer)
- Cookies
- SEO
- Web Security
- PWA
- Email templates (Newsletters)
- Pug, Markdown

### HTML5

- Semantic tags
- LocalStorage, sessionStorage
- Offline first (ServiceWorkers, Cache, IndexedDB, LocalStorage)
- Geolocation
- Audio, Video
- Forms
- WebSockets
- WebRTC
- Canvas
- SVG

### JavaScript libraries

- RxJS
- RequireJS
- Modernizr
- jQuery
- jQueryUI
- Underscore
- Prototype
- Raphael JS
- D3.js
- MooTools

### JavaScript frameworks

- Angular
- React.js
- Vue.js
- AngularJS
- Backbone
- Ionic

### JavaScript state management

- Redux
- NgRx
- Mobx
- Vuex

### Strong typing in JavaScript

- TypeScript

### CSS – framework, architecture, solutions

- Responsive Web Design
- Bootstrap
- Material Design
- Materialize
- Unsemantic
- Foundation
- Semantic UI
- Atomic Design
- BEM
- Fonts
- CSS in JS (styled components)

### CSS preprocessors

- SASS, LESS
- Compass
- Stylus

### Testing

- Jasmine
- Karma
- Mocha
- Jest
- Protractor
- Cypress
- Unit.js

### API/SDK

- Facebook API
- Google API
- Firebase

### Task automation/ software development tools

- NPM
- Babel
- Webpack
- Rollup
- Gulp
- Grunt

### Package manager

- NPM
- Yarn

### Application server

- Node.js

### Business Intelligence

---

### Databases

- Microsoft SQL Server 2019/2017/2016/2014/2012/2008/2005/2000
- Azure SQL Database, Azure Synapse
- Oracle 12c/11g/10g/9g

- IBM DB2
- Teradata
- PostgreSQL
- Redshift
- MySQL
- Snowflake

## ETL

- Business Objects Integrator/Data Services (+ Data Quality)
- IBM InfoSphere DataStage (+ Quality Stage)
- Oracle Warehouse Builder
- Oracle Data Integrator
- Microsoft Integration Services
- Azure Data Factory
- Informatica PowerCenter (+ Data Quality)
- Talend Open Studio for Data Integration
- Pentaho Data Integration (Kettle)
- Qlik scripting language
- Power Query

## Data virtualization platforms

- Denodo

## Master Data Management (MDM) platforms

- Microsoft Master Data Services + Data Quality Services
- Qlik Data Catalyst

## Business Intelligence platforms/ Reporting

- SAP Business Objects 4.0/3.1
- SAP Crystal Reports 9/10/XI
- IBM Cognos 10 BI
- MicroStrategy 7/8/9
- Microsoft BI
  - On-premise: SQL Server Reporting Services (SSRS), SQL Server Analysis Services (SSAS) (Multidimensional + Tabular)
  - Azure Analysis Services, Azure Synapse
  - Power BI – cloud version (Power BI Pro, Power BI Premium, Power BI Premium Per User) and on-premise version (Power BI Report Server)
- Oracle BI Enterprise Edition
- Pentaho
- Jasper Reports

- Oracle Hyperion Planning
- QlikView
- Qlik Sense
- Qlik Analytics Platform
- NPrinting
- Tableau

## Mobile

---

### Platforms

- iOS
- Android

### Programming languages

- Objective-C
- Swift
- Java
- Kotlin
- C#
- HTML, CSS, JavaScript

### Programming environments/ Tools

- Xcode
- Eclipse
- Android Studio
- Microsoft Visual Studio

### Cross-platform technologies

- Xamarin
- PhoneGap
- Cordova
- Ionic
- AngularJS
- React Native

### Native technologies

- iOS SDK, UIKit
- Android SDK
- Retrofit
- Volley
- RxJava

- Spring for Android
- Robolectric
- Crashlytics
- SQLite
- Cocoa Touch
- Core Data
- AFNetworking
- Cocos2d
- .NET Compact Framework
- Web Services Collaboration
- SQL Server CE
- LibGDX
- XNA Framework

### General

- App Store, Google Play, Windows Marketplace publishing
- Web Services, REST, JSON
- TDD/BDD
- SVN, Git
- MVC, MVVM

### Quality Assurance

---

#### Bug tracking

- JIRA
- Unfuddle
- TFS
- HP ALM
- TestRail
- Bugzilla

#### Test management tools

- TestRail
- XRay
- qTest
- HP ALM
- TFS
- Hiptest
- Zephyr
- Plutora Test



### Test automation

- Selenium WebDriver
- UnitTest
- Cypress
- WebDriverIO
- Serenity BDD
- Selenide
- Watir
- Katalon Studio
- Cucumber
- PyTest
- Appium
- TestComplete
- WhiteUI

### Performance testing tools

- JMeter
- Gatling
- BlazeMeter
- LoadUI

### Security testing

- Fiddler
- AppScan
- Kali Linux
- OWASP
- Metasploit
- Burp Suite

### Application monitoring

- Process Explorer
- HttpWatch
- Netcat

### Error reporting

- Snagit
- Jing
- TestAssistant Expert Player

### API testing

- Postman

- REST Assured
- Requests
- SoapUI
- Swagger

## E-commerce

---

### Platforms

- Magento
- WooCommerce
- Umbraco
- PrestaShop
- VirtueMart
- osCommerce

### Custom solutions

- Java
- .NET
- PHP

## Big Data

---

### Platforms

- Microsoft HDInsight
- Cloudera Hadoop
- Horton Hadoop
- Amazon AWS

### Frameworks and tools

- Hadoop HDFS
- Spark
- Hive
- Pig

### Data Science

- R
- Python (SciPy, NumPy, Panda)
- Java

## Business Analysis

---

### Notations

- UML
- BPMN
- SysML
- ArchiMate

### Tools and technologies

- Enterprise Architect
- Aris
- Visual Paradigm
- Axure
- Pencil
- MS Visio
- JIRA
- Confluence
- MS SharePoint

### Areas of analysis

- Enterprise analysis
- Process modeling
- Requirements engineering
- Gap analysis
- UI prototyping
- Agile analysis
- Individual solutions
- Professional project's documentation
- Solution validation
- Documentation management
- Functional testing

### Projects

- Models of business processes
- Logical and physical data models
- Complete information system projects
- Databases
- Systems integration
- Multi-dimensional data models
- Data warehousing

## PLC & HMI

---

### Platforms

- Beckhoff
- Siemens
- Allen-Bradley
- Schneider Electric

### Tools

- PLC
  - Twincat 2
  - Twincat 3
  - Step 7
  - Tia Portal
  - RSLogix 5000
  - Unity Pro
- HMI
  - Tia Portal
  - FactoryTalk
  - Vijeo Designer

## Apple Device Management

---

### Platform

- Jamf Pro

### Operating systems

- macOS
- iOS
- tvOS

### Tools

- VMware Fusion
- NoMAD/Jamf Connect
- Apple Configurator
- Apple Business Manager (DEP/VPP)

### Programming languages

- Bash

- Expect

### Infrastructure

- AWS
- Apache Tomcat
- Ubuntu/RHEL/Windows Server
- MySQL/MariaDB/Amazon RDS
- Jamf Infrastructure Manager
- Intune/MS Azure/Conditional Access/O365

### Services

- Application packaging
- Configuration profiles
- CIS implementation
- OS provisioning

### Repositories

- Git
- TFS
- Azure DevOps

### ITSM

- ServiceNow

### Project management

- Scrum framework

## AWS (Amazon Web Services)

---

### Migration tools

- Server Migration Service
- Database Migration Service
- DataSync
- Application Discovery Service

### Computing

- EC2
- Lambda
- Containerizing
  - Elastic Container Service (ECS)

- Elastic Container Registry (ECR)
- Fargate
- Kubernetes - Elastic Kubernetes Service

## Database

- SQL
  - Amazon RDS (MySQL, PostgreSQL, Oracle, SQL Server, MariaDB)
  - Amazon Aurora (MySQL and PostgreSQL compatibility)
- No-SQL
  - Amazon DynamoDB and DocumentDB (MongoDB compatibility)

## Networking

- VPC
- CloudFront (CDN)
- Elastic Load Balancing
- AppMesh

## Development tools

- CI/CD
  - Code Build
  - Code Pipeline
  - Code Deploy
  - Code Commit
- Debugging
  - X-Ray

## Management

- Trial and monitoring
  - CloudWatch
  - CloudTrail
  - Personal Health Dashboard
- Configuration management systems
  - CloudFormation
  - OpsWorks (Chef & Puppet)
  - Ansible
  - Saltstack

## Analytics

- Redshift (data warehouse)
- Managed Streaming for Apache Kafka
- Elasticsearch Service

## Storage

- S3
- Elastic Block Store (EBS)
- Elastic File System (EFS)
- Backup

## Microsoft Azure

---

### Computing

- Virtual Machines
- Azure Functions
- Containerizing
  - Container Registry
  - Container Instances
  - Web App for Containers
- Kubernetes – Azure Kubernetes Service (AKS)
- Azure Spring Cloud

### Database

- Cosmos DB
- Database for MySQL
- Database for MariaDB
- Database for PostgreSQL
- SQL Database
- Cache for Redis

### Networking

- Virtual Network
- Content Delivery Network (CDN)
- Load Balancer

### Development tools

- DevOps
  - Azure Pipeline
  - Azure Artifacts

- Azure Repos
- Azure Test Plans
- Debugging
  - Azure Monitor

## Management

- Trial and monitoring
  - Azure Monitor
- Configuration management systems
  - Chef
  - Puppet
  - Ansible
  - Saltstack

## Storage

- Azure Files
- Block Blob
- Azure Backup

## GCP (Google Cloud Platform)

---

### Computing

- Compute Engine
- Cloud Functions
- Containerizing
  - Cloud Build
  - Container Registry
- Kubernetes – Kubernetes Engine

### Database

- Cloud SQL
- Cloud Bigtable

### Networking

- VPC
- Cloud CDN (CDN)
- Cloud Load Balancing



## Development tools

- CI/CD
  - Cloud Deployment Management
  - Cloud Source Repositories

## Management

- Trial and monitoring
  - Monitoring
  - Logging
  - Trace
  - Debugger
- Configuration management systems
  - Chef
  - Puppet
  - Ansible
  - Saltstack

## Analytics

- BigQuery (data warehouse)

## Storage

- Cloud Storage
- Persistent Disk

## RPA (Robotic Process Automation)

---

### Environments

- Blue Prism
- Automation Anywhere
- UiPath
- OpenSpan
- NICE
- Work Fusion
- PEGA

### Programming languages

- C#
- Java
- C++

- VB .NET

## Others

- WebServices
- WebAPI
- REST
- JSON

## Machine Learning

---

### Programming environments

- PyCharm
- Jupyter

### Languages

- Python
- SQL
- Bash

### Machine Learning libraries

- scikit-learn
- TensorFlow
- PyTorch
- H2O
- XGBoost

### Data service libraries

- NumPy
- Pandas
- SciPy
- Dask

### Big Data

- Hadoop HDFS
- Spark
- Hive
- Kafka

## DevOps

---

### Configuration Management / provisioning

- Chef
- Saltstack
- Puppet
- Ansible
- Terraform
- ARM

### Continous Integration

- Jenkins
- CircleCI
- GitlabCI
- Github Actions
- BitBucket Pipelines
- Azure DevOps

### Virtualization / Docker orchestration

- Docker Compose
- Docker Swarm
- Kubernetes (Helm)
- Openstack
- Mesos
- Vagrant
- App Services

### Service mesh

- Istio
- Envoy
- Traefik

### Monitoring

- Graphana
- Prometheus
- App Dynamics
- Nagios
- Pagerduty
- SonarQube
- Zipkin
- Micrometer
- Application Insights

### Logs management

- ELK stack
- Graylog

### Package management

- JFrog Artifactory
- Nexus
- Portus
- Docker Hub

### Networking

- Loadbalancing/ API GW (nginx, traefik, HAproxy)
- TLS/SSL configuration



Contact [JCommerce Sp. z o.o.](#)

Address [3 Ks. Piotra Ściegiennego St.  
40-114 Katowice](#)

Phone [+48 32 201 15 32](#)

Fax [+48 32 255 36 15](#)

E-mail [office@jcommerce.pl](mailto:office@jcommerce.pl)

Offices [Katowice](#)  
227 Kosciuszki St.

[Warszawa](#)  
7 Woloska St., Empark Business Park, Mars

[Poznan](#)  
164 Rataje St.

[Krakow](#)  
8W Wadowicka St.

[Rzeszow](#)  
80 Armii Krajowej St., Centrum 2000