

LIST OF REFERENCES



ABOUT US

InnovITech gained software development experience and references in the following areas:

- Banking and Insurance: Data Warehouse, Big Data, Business Intelligence, back-end financial services.
- Industry: ERP, Digital warehouse system.
- Public sector: Mobile Parking System, Online Invoicing system.
- R&D: JavaFitter (source code static analyser), Grapler (GRApe Pruner Learning Robot).
- R&D: e-Health Development (CTA, Genomatlas, Metagenom)
- Telecommunication: Media content management.



Roles

- Project planning
- Software design
- Development
- Testing
- Guidance

Number of experts: 100



Technologies

- Java
- Angular
- Android, iOS
- Oracle
- MS SQL
- Power BI
- Machine learning



Services

- Individual application development
- Professional guidance
- Quality assurance
- IT project audit
- Education
- Research and development
- Resource outsourcing

FINANCIAL SECTOR

ALLIANZ CEE REGION

SmartCOMM integration

The integration of Thunderhead NOW Client communication platform into the opening new core system in the CEE region.

Number of active users: 1.000+

Programming language: Java

Application server: WebSphere

Database: Oracle

ALLIANZ HUNGÁRIA ZRT.

Prospect database

Supporting the insurance company's new client finding campaigns with creating prospect Database system. The sources are founded in different unstructured files. The targeted environment is relational Database.

Technologies: Cloudera Big Data framework, Talend ETL tool, Oracle Database

HOBOpus core system improvement

Number of active users: 1000+

Programming languages: PL/SQL, JavaScript

Application server: WebSphere

Database: Oracle

SmartCOMM CCM system installation

Introducing a new client communication platform. Migrating the templates of existing systems (Innodox PReS), realizing the fully automated process of printing and documenting.

Number of active users: 1000+

Programming language: Java, Javascript

Application server: WebSphere

Database: Oracle

Datawarehouse and BI development

Number of active users: 100+

Database: Oracle

Technologies: PL/SQL, Oracle database tools MS SQL, MS SSRS, MS SSIS, MS PowerBI

REX report making system's development:

Number of active users: 100+

Application server: WebSphere

Database: Oracle

Technologies: Java, Apache POI, PL/SQL, APEX

ALLIANZ HUNGARY PENSION & HEALTH FUND

Invoice information system's development

Number of active users: 1.000+

Web container: Tomcat

Database: Oracle

Technologies: Java7, JSF2, RESTful Web Services

URL: <https://www.allianz.hu/aszamlainf>

Automatizing of the filing process

The data from the handwritten form handed in is extracted by Abbyy FlexiCapture character recognizing system and integrated by the filing system.

Technologies: Abbyy FlexiCapture

ALIOR / VORTEX

Mobile application serving the clients of the Polish bank Alior.

Programming language: Objective-C

Database: Oracle

Application server: Tomcat

Other technologies: working on iOS6.0+ machines.

BANK360

IT system and project audits:

IT system and project audit– the analysis of source codes, quality insurance, IT security aspects, architecture/design solutions, project organization, maintenance, and support.

Power BI Dashboard:

Obtaining information from big transactional databases by Big Data processes.

Technologies: MS Azure, Event Hubs, Stream Analytics, Blob Storage, Data Factory, MS SQL Server, Power BI

BTPN INDONESIAN BANK

Internet Bank

Participation in the implementation of Internet banking.

Programming languages: Java

Database: Oracle

Technologies: angularJS, Java EE, Spring, MyBatis, websphere, Oracle, GIT

BUDAPEST BANK

ZEUS Online investment system

An external user-accessible investment management system was developed.

Number of active users: 3.000

Programming language: Java

Database: Oracle

Application server: Tomcat, Glassfish

Other technologies: MyBatis, Spring

Internet Bank

Brief Description: Participation in the implementation of Internet banking

Programming languages: Java

Database: Oracle

Technologies: ExtJS, Java EE, Spring, MyBatis, Tomcat, Glassfish, Oracle, SVN

CTT (CORREIOS, TELÉGRAFOS E TELEFONES)

Introduction of Portuguese postal banking services

Participation in the implementation of Internet banking

Programming languages: Java

Database: Oracle

Technologies: angularJS, Java EE, Spring, MyBatis, websphere, Oracle, GIT

ERSTE

Consulting Surfaces:

Short description: Data management of retail and micro corporate clients: Current account opening, bankcard application, electronic access, consulting, money deposits.

Client's reactions, offers monitoring, reporting. Transaction bonus point tracking. Informing the management.

Number of active users: Employee of ERSTE Bank

Programming languages: Java, PL/SQL

Database: Oracle

Application server: WebLogic

Other technologies: EJB 3.0, JPA, JDBC, JTA 1.2, JMS 1.1, JAAS 1.2, JSE 1.6, JAX-WS, Log4f, Pluto, JSF 1.2, Icefaces 1.8, IceFaces PushServer, Hibernate, Maven, JRebel, Spring, SVN, Oracle Coherence

FAB (FIRST ABU DHABI) BANK

Internet Bank

Brief Description: Participation in the implementation of Internet banking.

Programming language: Java

Database: Oracle

Technologies: angularJS, Java EE, Spring (core, security, integration -REST), Maven, MyBatis, websphere, Oracle, GIT

IBB – INFOBANK & INFOBROKER

Information management and information trading are the services of the future.

Database: MariaDB, MongoDB, Redis

Programming languages: Java, TypeScript

Frameworks: Coffee, Angular

Application server: Thorntail

DevOps: Jenkins, Kubernetes, Helm

Testing: jMeter, Roaster

Other technologies: JAX-RS, CDI(Weld), Angular, Maven, Hibernate, Apache DeltaSpike, Liquibase, OpenAPI, XSD

IOS TABLET BANKING APP:

iPad demo application, which is working offline and able to simulate different bank transactions.

Programming language: Objective-C

Database: JSON files loaded to Core Data

Other technologies: working on iOS6.0+ machines.

MAGNET BANK

„IFF” –Integrated Factoring and General Ledger system

Short description: The implementation of the Integrated Factoring and General Ledger system.

Number of active users: 10

Programming languages: Java, PL/SQL

Database: Oracle

Application server: JBoss

Other technologies: JBoss Seam, JBoss RichFaces, EJB3, JSF, Eclipse, Enterprise Architect, UML, Maven

MORGAN STANLEY

Bond Trading

Expanding Morgan Stanley's US securities market by a bond trading solution on the server-side

Programming language: Java

Other technologies: Spring, XML, JAXP

OTP MOBIL

Modification the simple services of web development

Development of ticketing and highway e-vignette simple web services, creating simple.hu portal based on Java content management solutions, with the introduction of a new content management system.

Programming language: Java, Angular TypeScript

Databases: PostgreSQL, MySQL

Technologies: Jax-RS, CDI(Weld), Angular, Maven, Hibernate, WildFly 10, Wordpress, Retrofit, GSON, RestEasy

Simple services development for web

Development of ticketing and highway e-sticker simple web services, creating simple.hu portal based on Java content management solutions.

Programming language: Java

Databases: PostgreSQL

Technologies: Jax-RS, CDI(Weld), PrimeFaces, Maven, Hibernate, WildFly 10, OpenCMS, Retrofit, GSON, RestEasy

Simple Android and iOS application development

Brief description: Simple Android and iOS application development and support.

Programming languages: Kotlin

Other technologies: AndroidX libraries,; Rest communication: Retrofit, OkHttp; Dependency

Injection: Dagger2; Design patterns: Repository pattern, MVVM pattern, Observer pattern (Reactive extensions).

Programming languages: Objective-C

Other technologies: Rest kommunikáció; Alamofire; MVC pattern; Dependency Injection: Swinject;
Test: UiTests

Data warehouse customization and deployment

Introducing the Microsoft SQLServer 2016-based Data Warehouse related to 4 main source systems of OTP Mobile, developing data markets. Introducing Microsoft PowerBI Analyzer BI System.

Database: MS SQL Server 2016

Technologies: MS SQL, SSIS, PowerBI

Development of the backend for mobile applications

Developing and supporting Java backend and frontend by refactoring of existing mobile applications and introducing new ones.

List of the projects:

- Refactoring the backend side of Simple ticketing
- "Self Ticket" B2B market interface changes
- Integration of Simple and MaEste Theater
- Developing the Admin page for Party Locator
- Developing the Simple Coupon Service
- Developing the Admin page for SCard pages
- Introducing a parking ticket sales solution for "Művészetek Völgye"
- Ticketing system for "Sziget" festivals (Volt, BS, Sziget)
- Integration of Movie Theater ticketing solution into Simple
- Code review and refactoring of the code base of Party Locator and Heatmap
- Integration of the Cinema City into Simple and backend development for it
- Integration of the PayU into Simple and backend development for it

Programming language: Java

Database: PostgreSQL

Application server: JBoss6, Tomcat

Other technologies: JMS, Spring, Hibernate, JSON

TAKARÉKBANK - TAKARÉKINFO ZRT.

„TSM” – Takarékinfo Sales Modul:

Implementation of a system (design, development, quality assurance) with a Microservice based architecture for the coordinated execution of the notification processes of the Hungarian Takarékcsoport

Programming languages: Java, Angular TypeScript

Database: Oracle

Application server: Thorntail

Other technologies: JAX-RS, CDI(Weld), Angular, Maven, Hibernate, Apache DeltaSpike, Swagger, WildFly Swarm

Implementation of TAKARÉK MobilBank application

TAKARÉK MobilBank application (simple and user-friendly tracking of account and card traffic).

Programming language: Kotlin

Other technologies: AndroidX libraries, Gradle, Kotlin coroutines, Kotlin extensions; Rest communication: Retrofit, OkHttp; Design patterns: Dependency Injection (Dagger2), Repository pattern (MVVM pattern), Firebase (Messaging).

AFR (IPS) – Supporting the implementation of the Immediate Payment System

IT system support for the development, during which the interpretation of business needs and the introduction of new releases must be ensured and followed.

Other technologies: JIRA, Confluence

Oracle DWH and PL/SQL developments

Credit card data market, controlling developments.

Database: Oracle

Technologies: PL/SQL, Oracle data warehouse tools

YOMA MYANMAR BANK

Internet Bank

Participation in the implementation of Internet banking.

Programming languages: Java

Database: Oracle

Technologies: angularJS, Java EE, Spring, MyBatis, websphere, Oracle, GIT

ZENITH NIGERIAN BANK

Internet Bank

Participation in the implementation of Internet banking.

Programming languages: Java

Database: Oracle

Technologies: angularJS, Java EE, Spring, MyBatis, websphere, Oracle, GIT

PUBLIC SECTOR

E-ROAD TRADE CHECKING SYSTEM - "EKAER"

Number of active users: 20.000+

Programming language: Java

Database: Oracle

Application server: JBoss

Other technologies: Servlet, JSON, XML, Resteasy, CDI, Deltaspike, JPA, Hibernate

HUNGARIAN STATE TREASURY

Municipal ASP 2.0 project

Within the framework of the task, the creation of the ASP2.0 data warehouse based on municipal data and the provision of integration with the source systems were implemented.

The data warehouse was created, and the data markets were created in a Cloudera Enterprise environment.

Technologies used : Cloudera Big Data, MS SQL Server, MS Analysis Services, MS Integration Services, Power BI

MÁV (HUNGARIAN RAILWAY) - RDE

MÁV (Hungarian National Trains) extraordinary event operator system

Programming language: Java

Database: Oracle

Application server: Tomcat

Other technologies: OSGi, JPA, Eclipselink, RMI, dOSGi

MINISTRY OF AGRICULTURE

IT system and project audits

IT system and project audits – the analysis of source codes, quality insurance, IT security aspects, architecture/design solutions, project organization, maintenance, and support. During the investigations, several nationwide IT systems and their implementation and maintenance projects were screened. Our company is currently carrying out IT system audits at the request of the Ministry.

MVM ONLINE MANAGEMENT SYSTEM

Developing an application for direct MVM users (consumption and billing data handling).

Number of active users: 100

Programming languages: Java-

Database: Oracle

Application server: Weblogic

NATIONAL CONSUMER PROTECTION AUTHORITY

Digital Consumer Protection Project

Implementation of a consumer protection analysis-planning and statistical system. Creation of Microsoft SQL Server 2017 within the framework of a traditional stratified, high-availability data warehouse. ETL processes were implemented in SQL Server Integration Services. Exploitation and reporting of data through standard reports published in Power BI, Power BI Report Server.

Technologies used: Cludera Big Data, MS SQL Server, MS Analysis Services, MS Integration Services, Power BI

NATIONAL HOSPITAL DIRECTORATE

EcoSTAT DWH and BI

Design of OKFŐ BI system and implementation of its pilot system.

Technologies used: MS SQL Server, MS Integration Services, MS Analysis Services, Power BI

NATIONAL FOOD CHAIN SECURITY - "NEBIH"

ENYR system development

JBPM process-driven web application

Programming language: Java

Application server: Tomcat

Other technologies: JBPM, JAX-WS

NAV INTEGRATED DATA WAREHOUSE

Integrated data warehouse

Preparation of the requirements specification required for the establishment of the ITAR integrated data warehouse of the National Tax and Customs Administration. Participation in the implementation.

Database: Oracle

Technologies: PL/SQL, Oracle Warehouse builder, Oracle Discoverer, Oracle BI

Implementation of Online Account Management Backoffice module

Full implementation of frontend and backend components of NAV Online Account Management Backoffice module with a Microservice based architecture.

Programming language: Java

Database: Oracle

Application server: Thorntail

Other technologies: JDK8, Java EE7, Jax-RS, CDI(Weld), Hibernate, Detalspike, WildFly Swarm.

Thorntail 2.2.0.Final, GSON, JSF 2.2, PrimeFaces (6.1), Maven, Jenkins, Swagger, Oracle, Docker, JIRA, Confluence

Implementation of online account manager and invoicing system

Implementing Frontend and Backend components of NAV online account manager and invoicing system based on Microservice architecture.

Database: Oracle

Programming languages: Java, Angular TypeScript

Application server: Thorntail

Other technologies: JDK8, JAVA EE7, Jax-RS, CDI(Weld), Hibernate, Detalspike, Thorntail, Maven, Jenkins, OpenAPI, Oracle, JIRA, Confluence, Hangouts

TELECOMMUNICATION SECTOR

E-MOBILE PARKING SYSTEM

Participation in the creation of E-Mobile Parking System.

Number of active users: 100.000+

Programming language: Java

Database: Oracle

Application server: JBoss

Other technologies: Servlet, JSON, XML, Resteasy, JMS, Quartz, Asterisk, CDI, Deltaspike, JPA, Hibernate, JSF

TELEKOM

ASP myts redesign

The ASP portal integration on Telekom system: for Telekom small and medium companies cloud systems –the replenishment and incorporation of interfaces in their own Telekom System.

Programming language: Java

Database: Oracle

Application server: GlassFish

Other technologies: JPA, EJB3, Web Service, Velocity, jQuery

Contract and Demand Recording Application

Client and contract management of Magyar Telekom's energy business. The application is partially integrated with Magyar Telekom's SAP system through Web Service calls.

Number of active users: 20

Programming languages: Java

Database: Oracle

Application server: WebLogic

Other technologies: Wicket, EJB3, MQ, WebService, EclipseLink

„VoD” Content library implementation

"Video On Demand" content library central content distributor and pricing system.

Number of active users: 20

Programming languages: Java, PL/SQL

Database: Oracle

Application server: JBoss

Other technologies: JBoss Seam, JBoss RichFaces, EJB3, JSF, Eclipse, Enterprise Architect, UML, RUP, Maven, Jenkins, PMD, FindBugs, Checkstyle

Developing of Telekom webshop

Refactoring the webshop of Magyar Telekom using Oracle ATG, and integrating Oracle Endeca

Programming language: Java

Database: Oracle

Application server: WebLogic

Other technologies: Frontend – JSP, Oracle ATG (DSP, Droplet); Backend – Oracle ATG framework (Nucleus components, DI, ATG ORM), REST/SOAP WS, EJB, Eclipse, Ant, Mockito, Jenkins, Sonarcube, Git, Rest/SOAP WS, SCRUM (JIRA)

Development of ATG based Webshop performance test

The webshop application of "Magyar Telekom" performance test with Selenium and Grinder tools.

Programming languages: Java

Other technologies: Selenium, Grinder

VODAFONE

Expand access portlet with personalized customer access. Implementing web-based management of a user application configuration.

Programming language: Java

Application server: Weblogic Server (Tomcat - local)

Other technologies: Web Service, Liferay portlet, Spring MVC, SSO, LDAP, XML, Maven

HEALTHCARE SECTOR

CTA – „CML TREATMENT ASSISTANT”

The aim of the research development project is to support the treatment of cancer patients in order to increase the effectiveness of the treatment.

Programming languages: Java, Android

Database: Oracle

Application server: WildFly 8

Other technologies: JSF2, JPA, CDI, WELD, PrimeFaces

GENOMEATLAS – PRODUCT DEVELOPMENT

Representation of the cell type-specific three-dimensional structure of the genome of a given species.

Database: Oracle

Programming languages: Java, Angular TypeScript

Application server: Thorntail

Other technologies: JAX-RS, CDI(Weld), Angular, Maven, Hibernate, Apache DeltaSpike, Swagger

METAGENOM – PRODUCT DEVELOPMENT

Development of a microbiome analysis-based service according to an example model for the examination of neuropsychiatric diseases.

Database: Oracle

Programming languages: Java, Angular TypeScript

Application server: Thorntail

Other technologies: JAX-RS, CDI(Weld), Angular, Maven, Hibernate, Apache DeltaSpike, Swagger

METAGENOM - ANDROID

Monitoring of microbiome and clinical data, analysis of relationship/correlation between them. Development of mobile application related to clinical data tracking

Programming languages: Kotlin

Local Database: Room

Other technologies: AndroidX libraries, Kotlin extensions, Gradle; Rest communication: Retrofit, OkHttp; Dependency Injection: Dagger2; Design patterns: Repository pattern, MVVM pattern, Observer pattern (Reactive extensions); Teszt: JUnit, Espresso

METAGENOM - IOS

Monitoring of microbiome and clinical data, analysis of relationship/correlation between them. Development of mobile application related to clinical data tracking

Programming languages: Swift

Other technologies: Rest communication: Alamofire; MVC pattern; Dependency Injection: Swinject; Test: UiTests

SEMMELWEIS UNIVERSITY I. INSTITUTE OF PATHOLOGY AND EXPERIMENTAL CANCER RESEARCH - CTA – „CML TREATMENT ASSISTANT”

The aim of the research development project was to support the treatment of cancer patients by helping to increase the effectiveness of therapies.

Programming languages: Java, Android

Database: Oracle

Application server: WildFly 8

Other technologies: JSF2, JPA, CDI, WELD, PrimeFaces

AGRICULTURE, MANUFACTURING & LOGISTICS SECTOR

EMABP – ELECTRONICAL HUNGARIAN AGRICULTURAL SUPPLY MARKETPLACE

An electronical marketplace, which provides efficient support for (basically in SMEs) the agricultural producers and providers in order to increase the efficiency of contact making in business and goods marketing.

Programming language: JAVA

Database: DB2

Application server: Websphere Application Server

Other technologies: JSP, EJB, Struts, XML

EXPRESS ONE KFT.

Introduction of Power BI-based BI system, strategy design and consultation services.

Technologies: MS Azure, MS SQL Server, Power BI

GRAPLER – GRAPE PRUNING ROBOT DEVELOPMENT

GRAPLER (GRApe Pruning LEarner Robot) – Design of a precision pruning robot and intelligent agricultural platform, based on image processing and machine learning processes.

Database: MariaDB, Redis

Programming languages: Java, TypeScript

Frameworks: Coffee, Angular

Application server: Thorntail

DevOps: Jenkins, Kubernetes, Helm

Testing: jMeter, Roaster

Other technologies: JAX-RS, CDI(Weld), Angular, Maven, Hibernate, Apache DeltaSpike, Liquibase, OpenAPI, XSD

"HUGO" – E-HIGHWAY SYSTEM:

E-highway fee collector system

Number of active users: 100.000+

Programming language: Java

Database: Oracle

Application server: JBoss

Other technologies: Servlet, JSON, XML, Resteasy, JMS, Quartz, Asterisk, CDI, Deltaspike, JPA, Hibernate, JSF

INDONESIAN E-TOLL - MLFF - MULTI LANE FREE FLOW SYSTEM

Introduction of the highway e-vignette purchase system in Indonesia.

Implementation of the frontend and backend components of the system with a **Microservice-based architecture.**

Database: Cloud SQL (Postgres)

Programming languages: Java, Angular TypeScript

Application server: Wildfly

Other technologies: JDK11, Jakarta EE8, Jax-RS, CDI(Weld), Hibernate, Deltaspike, Maven, Gitlab (git és Gitlab Ci/CD), OpenAPI, Docker, Docker compose, Docker build, Kubernetes, Google cloud, Google Cloud storage

INNOERP – DIGITAL WAREHOUSE MANAGEMENT SYSTEM

Developing digital warehouse manager system; electronic delivery note, distribution, use, relocation, inventory, RFID-based tracking services.

Database: MariaDB, Redis

Programming languages: Java, TypeScript

Frameworks: Coffee, Angular

Application server: Thorntail

DevOps: Jenkins, Kubernetes, Helm

Testing: jMeter, Roaster

Other technologies: JAX-RS, CDI(Weld), Angular, Maven, Hibernate, Apache DeltaSpike, Liquibase, OpenAPI, XSD

WEBEYE APPLICATION FOR TRACKING LOGISTIC DATA

The WebEye Logistics Tracking Support System is designed to provide online information on the status of a particular transport unit from the loading to the unloading.

Programming languages: Android, JAVA, XML

Database: SQLite on the client side, DB40

Other technologies: Dagger Dependency Injection, EventBus

OTHER REFERENCES

ESSENCE – DEVELOPMENT OF IOS FRAMEWORK

Developing an iOS framework with the name Essence

Programming language: Objective-C

Database: Oracle

Application server: Tomcat

Other technologies: It works on devices with iOS5.0+.

INNOVITECH EXCEL REPORTER – „INNER”

XLS, XLSX and CSV report generator engine capable of producing report formats.

Programming language: Java

Database: Platform independent

Application server: Tomcat, WildFly

Other technologies: JSF2, JPA, CDI, WELD, PrimeFaces

JAVAFITTER

Implementation of refactoring solutions based on automated source code decision structure analysis and expert system.

Analysis of the decision structure of Java-based source codes, measurement of quality indicator metrics, detection of the applicability of program design patterns derived from decision structure, automatic introduction of the implementable program design pattern with refactoring procedures for decision structure improvement.

Programming languages: Java, React JavaScript

Application server: Thorntail

Database: Redis

Other technologies: RestEasy, Jax-RS, JGit, Maven, Gradle, React, Docker, JMeter, JSON, XML, XSD, UML, SMT Solver

SZERENCSEJÁTÉK ZRT. - BI STRATEGY PLANNING

The aim of the project was to develop the BI strategy.

Technologies used: No development was made during the project.

SUZUKI TRIKE – REQUEST REGISTRATION SYSTEM

Full implementation of a workflow-based management system for quality assurance notifications

Programming languages: Java

Application server: Weblogic

Other technologies: JDK8, Microservice, STRUTS2, CDI(Weld), Weblogic, Maven, SSO

VELEMJÁRÓ:

The aim of the Velemjáró service is to support the existence of indigenous minorities by providing Hungarian legal protection across the border. Reporting and handling violations, settlement register, settlement error report, glossary and easy-to-understand guide for everyday administration.

Programming languages: Kotlin, Java

Other technologies: AndroidX libraries, Kotlin extensions, Gradle; Rest communication: Retrofit, OkHttp; Dependency Injection: Dagger2; Design patterns: Observer pattern (Reactive extensions), MVC, MVVM pattern; Teszt: JUnit, Espresso; Google play services, Google map, Firebase (Messaging, Auth, InAppMessage, Dynamic links, Analytics, Crashlytics)