

Juraj Kicko Horbal'

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SUMMARY

A skilled Software Architect and Full Stack Developer with background in **Java** (10 years), **C#** (6 years), **React** (4 years) and **Python** (2 years). Specializing in backend systems, data mining, and platform module development. Deeply passionate about enhancing and innovating systems. Always eager to integrate the latest technologies and tackle complex challenges, combine an analytical approach with attention to detail.

Soft skills: **innovative, team-oriented, analytical, adaptable, critical thinking**

Interests: **fintech, AI**

Tech stack: **Java** (Spring Boot, JPA/Hibernate), **C#** (.NET), **JS** (React), **Python**, **SQL**, **PHP**

Experience with: **REST**, **Jenkins** (CI/CD, build/deployment-automation), **Gradle**, **Docker**, **Linux**, **Microservices**, **JSON** and **XML** serialization

WORK EXPERIENCE

2024 - Present

Odoo Developer

Developing and extending Odoo functionalities for HR, manufacturing, and manufacturing, including process automation:

- Managing and generating/signing documents in the HR module.
- Implementing a product cost calculator for warehouse inventory valuation using Amazon SQS.
- Modifying existing manufacturing addons.
- Procurement claims.

Technologies: **AWS**, **Python**, **Odoo**, **XML**, **JSON**, **openpyxl**, **Mailhog**, **PostgreSQL**

2024

Odoo Module Development

Personal project. Developed a custom addon for Odoo v17 to enhance the Employee module and integrate email functionality. Key features included:

- Added and replaced fields in existing models, including auto-calculated fields and default values.
- Ensured field uniqueness across multiple models using mixins.
- Implemented a binary field for uploading Excel files using openpyxl. containing email addresses and subjects, with an email sending wizard.
- Integrated Mailhog SMTP server for testing outgoing emails.
- Created an API endpoint to handle JSON requests.

Technologies: **Python, Odoo, XML, JSON, Docker, openpyxl, Mailhog, PostgreSQL**

2024

Corda Blockchain Development

Personal project to explore the capabilities of distributed ledger technology (DLT) using Corda, focusing on creating a decentralized application (CorDapp) for supply chain tracking and interaction between multiple nodes.

- Developed a CorDapp to track goods throughout the supply chain.
- Implemented simple smart contracts to define and enforce transaction rules.
- Managed a local network with multiple nodes, including Notary, PartyA, and PartyB.
- Designed and executed workflows to handle simple interactions between nodes.
- Created a Kotlin-based client for seamless RPC communication with the Corda nodes.
- Simulated simple transactions and state transfers to validate the application.

Technologies: **Kotlin, R3 Corda, Gradle**

2024

Python development

Personal project to explore the capabilities of training custom neural networks in Python, attempting to utilize AI to learn a new programming language (**Python**) and understand the principles of creating and training a **neural network** from scratch.

- Creation of a script that regularly downloads the latest stock exchange data and saves it to a local **MySQL** database.
- Design of basic vector function which can work with dynamic set of data.

- Identifying several variables worth experimenting with during training to enable simultaneous network testing across multiple scenarios.
- Training and test the model on data stored in the local DB.
- Enhancing the efficiency of model training by leveraging a graphics card with **CUDA** support.
- Analysis of the feasibility of developing an algorithm for a market maker.

Technologies: **Python (torch, ccxt, mplfinance), MySQL**

2021 – 2024

Java + React Developer

Team leader (2P)

Complete redesign of **Bloomreach.com** using the Bloomreach Content CMS. The project centered around enhancing the website's backend infrastructure to provide a seamless user experience and support its vast content management needs.

- Spearheaded the development and optimization of the backend systems, ensuring robust performance and scalability.
- Proposed a foundational structure for components and implemented both Server-Side Rendering (SSR) and Single-Page Application (SPA) approaches and collaborated with front-end developers
- Designed and integrated Java extensions on the backend to enhance the website's capabilities with sophisticated features and functionalities.
- Ensured compatibility with the Vercel hosting platform, optimizing deployment processes.

Technologies: **Java (Spring, Apache Jackrabbit), Bloomreach Content, React**

2020 – 2024

ASP.NET Core Developer / Architect

Team leader (3P)

The developed application offers comprehensive financial solutions, including leasing options for its customers:

- Integrated multiple bank APIs seamlessly using a custom-developed API gateway to streamline data retrieval and enhance application reliability.
- Designed and implemented configurable report dashboards, enabling stakeholders to obtain diverse views on historical financial data and track key metrics effectively.
- **Architect** of a system for dynamic rendering of UI elements tailored to specific configurations for individual banking institutions, optimizing user experience and ensuring compliance with varied bank requirements.

Technologies: **ASP .NET Core 3, C#, REST API, SOAP**

2018 – 2020 **.NET WPF Developer**

Management and development of WPF for PLC Configuration Modeling Software.

- Configuration of a component library representing real devices — loading structures in XML format.
- Connection with real devices, uploading created configurations, reading device statuses.
- Solving the rendering of complex arrangements of many elements.
- Creation of an emulator for testing configurations without the need for actual devices.

Technologies: **C#, .NET WPF**

2018 – 2021 **JavaFX Developer**

Development of a specialized ERP system for a waste management company. This project was aimed at streamlining garbage collection logistics, warehouse management, invoicing, and reporting in compliance with legislative standards, ensuring flexibility to accommodate new changes.

- Development of the waste logistics and warehouse management modules, ensuring efficient logistics processes
- Collaborated closely with the invoicing and reporting teams to ensure seamless integration of modules, providing a unified system experience.
- Addressed issues stemming from strict legislative standards and evolving waste management practices, updating the ERP system as needed.
- Development PHP server to synchronize data between users / services.
- Implemented an offline accessibility feature, allowing users to access and interact with the system even without an internet connection.
- Designed a customizable reporting tool, enabling users to tailor reports according to their needs while ensuring optimized system performance.

Technologies: **Java FX, PHP Symfony, MySQL, DevOps**

2015 – 2022 **Other projects**

- IDE Plugin Developer for IntelliJ IDEA (Java)
- Invoice Data Mining System (PHP)
- Internal Sales System (PHP)

EDUCATION

Technical University of Košice, Slovakia

- **Engineer degree** 2015 – 2017
- **Bachelor's degree** 2012 – 2015