

Ivan Vukman

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Location: Split, Croatia (EU)

Senior Full Stack Software Developer

Senior full stack developer strong in Java, C#, JS/TS, Postgres, Rust and distributed systems.

Over the past ~7.5 years, I have primarily worked for companies that specialize in enterprise applications development.

Interested in computer science, as well as getting things done, I take every opportunity to learn and tackle new challenges.

In my spare time I also strive to learn programming related topics. Recently, I've been investing a lot of time in learning Rust programming language and using it for side projects to learn more about various CS topics.

PROJECTS

TripAdvisor — *Java backend, microservices, TDD, DDD*

11/2020 - present

TripAdvisor is an online travel company that operates a website and mobile app with user generated content and a comparison shopping website. It also offers online hotel reservations and bookings for transportation, lodging, travel experiences and restaurants.

Backend architecture incorporates **server driven UI, DDD, TDD and event-driven microservice architecture.**

My role is to directly support and build backend services to support native clients (iOS and Android).

When I joined TA, development of new microservices for brand new native apps was still in progress. Because of that, I **participated heavily in making architectural and infrastructure decisions.**

Later, I worked mostly on developing new backend features for native clients while still maintaining and developing core parts when need be.

Over the past year, I've been **leading the backend work of a brand new in-house framework** that enables building complete native

SKILLS

C#/.NET/.NET Core

Java/Spring Boot

Node/Express/NestJS

React/Vue

Rust

JS/Typescript

PostgreSQL/MSSQL

MongoDB

Elasticsearch

Microservices

Distributed systems

DDD

TDD

AWS/AWS CDK/Azure

CERTIFICATES

Bachelor's degree in Information technology (Top student of generation)
2016

LANGUAGES

Croatian, English

app UI layouts completely server side, allowing us to deliver new features and components without app updates.

ZIVVER — Gmail Chrome extension, React, NestJS, MongoDB

10/2019 - 11/2020

ZIVVER is a platform for secure communication which helps in prevention of data breach in communications. It scans messages and attachments, and prevents sending sensitive information. It also gives insights into who has read messages or downloaded attachments and gives sender the possibility to revoke access to any sent message.

My role was to build a **chrome extension from scratch which augments Gmail** and integrates Zivver functionalities into it. Extension is built using React and SCSS.

On top of that, I built NestJS microservice from scratch that was used for document signing directly from chrome extension itself

Fortierra — React, Express.js, MongoDB

08/2019 - 10/2019

Fortierra provides information products and services to various parties in the real estate chain. They offer their customers the opportunity to fully map the condition of a house or a building, around five fixed themes: living environment, energy, communication technology, insurance and installation technology.

My role was to build an **interactive environment report map in React and Leaflet from scratch**, which was powered by the Express.js app that I also built from scratch.

Express.js app pulled data on a daily basis from other Fortierra backends, so I had to build integration for it.

Quickparking — Android

07/2019 - 09/2019

Quickparking offers inexpensive parking locations and shuttle services to and from 12 large airports in Belgium, Spain, Sweden and the Netherlands, including Schiphol. Thousands of travelers make use of the parking services each day.

My role was to build a **web view wrapper Android application for shuttle service bus drivers**.

Trawel — *.NET Core, React, Postgres*

03/2019 - 08/2019

Trawel is a mobile application which generates a route in a selected city based on user mood, for example hungry or adventurous, and therefore helps the user explore the city based on preferences. Application then uses GPS to navigate the user to points of interest of the generated route.

I was involved in the whole development process and in building both backend and frontend. For example, **I built a generation of routes on the backend based on user preferences as well as navigating users on a map in a mobile app.** Tech stack used on the project consists of ASP.NET Core/PostgreSQL on backend, React on administration web and React Native for Android and iOS apps.

Boat bike tours — *.NET Core, Vue (side project, freelance), MSSQL*

01/2018 - 07/2018

Boat bike tours is an Amsterdam based travel agency specialized in full-service bike-boat holidays. Operating tours all across Europe in more than 12 countries. I worked on building a booking system from scratch which replaced the old product that Boat bike tours were using.

System provides **booking of boat cabins and bikes/bike equipment.** It handled inventory management with concurrency in mind so that overbooking cannot happen. BBT integrates with payment providers so that bookings can be paid online.

It also **sends thousands of automated emails daily**, and it does so using a job scheduler.

The system is implemented as a web application built with ASP.NET server technology, JavaScript and VueJS on the web client, SQL Server for the database and hosted in Amazon Web Services.

Tamigo — *.NET, KnockoutJS, MSSQL*

03/2017 - 03/2019

Tamigo is a workforce management multi-tenant SaaS solution used by hundreds of thousands of users every day.

I worked on developing new features with **tight deadlines for B2B clients.**

Some of the features I worked on were building **integrations with 3rd party systems** to import employees into the system and building generic reporting infrastructure, so that new reports can be implemented solely on the backend without client work requirements.

Tech stack on project consists of ASP.NET, Typescript, Knockout.js, JavaScript, MS SQL Server and is hosted in Azure.

EDUCATION

University Department of Professional Studies, Split, Croatia — *univ. bacc.*

09/2016

Graduated information technology (Top student of generation award)