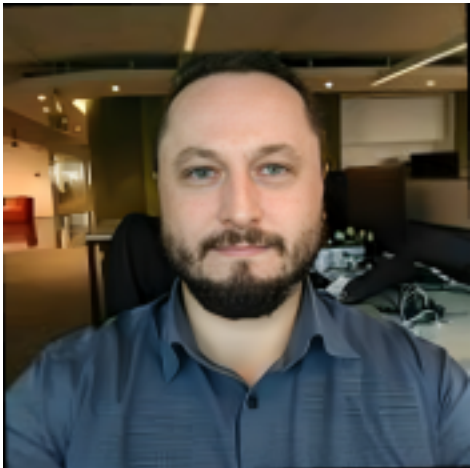


Portfolio



Phone: +90 542 462 0247
Email: mtorak2001@hotmail.com

Pivotal Cloud Foundry Migration(Jee to Spring Boot) of a large web app

Copy link

My role. Project Lead Developer

Project description.

Converted a large java enterprise(JEE) web app(in automotive industry) to a cloud web application.

Previous tech stack: Websphere, jersey rest, db2, open jpa, container security, spring batch old version.

New tech stack: Pivotal Cloud Foundry, Spring boot, spring rest, spring security(OAuth, SSO, JWT), postgresql, hibernate, spring batch latest version.

A custom ETL tool was created to migrate data from db2 to postgresql using topological sort algorithm.

Apigee proxied Rest API developed for above application. Tech stack: Java, Spring boot, Apigee API security, hibernate, postgresql.

Skills and deliverables

OAuth

Java

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USE CASE

Client: A Premium Automobile & Commercial Vehicle Manufacturer

Cloud Migration Journey of a Legacy Application

Flameshot

ilanus.com - Social Free Classifieds Startup

Copy link

My role: Architect / Developer / Founder / Owner

Project description.

My Own startup project

Ground up advertising web application design & development. It was online between 2014 – 2018 and was published on digitalocean. It was a social commerce platform targeting second-hand free classifieds audiences.

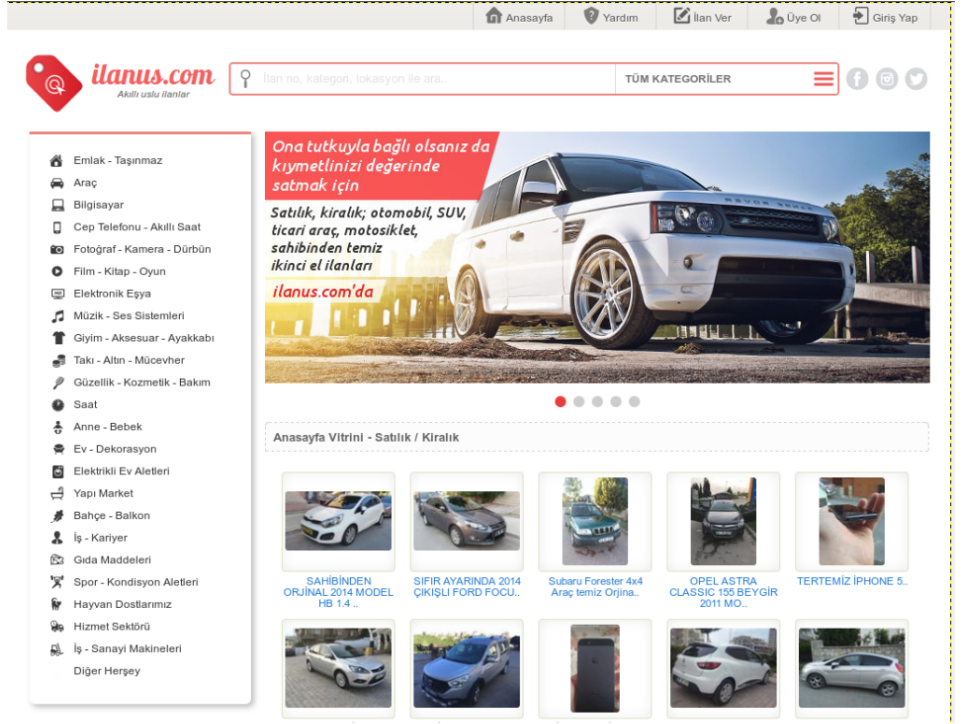
Tech stack: Java, spring framework, spring security, spring mvc, spring webflow, spring rest, spring data redis, javascript, html5, css3, tomcat, postgresql, cassandra, vert.x, nginx, digitalocean.

Skills and deliverables

Spring Framework Vert.x DigitalOcean Apache Cassandra Java

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Legal document processing system

Copy link

My role: Software architect, Lead Developer

Project description.

Legal document processing system was designed and developed using Java, Spring boot, hibernate, spring security, ldap, mysql, oracle, OCR tools, thymeleaf, html5, css3, bootstrap, javascript.

Named-Entities were detected with a smart algorithm and extracted info queried on big data systems. Since big data queries time consuming(hours) and randomly failing, developed a consensus algorithm to process large number of long running and randomly failing tasks parallelly. It is a distributed computing system which tries to process tasks asynchronously efficient and accurate as well.

Skills and deliverables

Multithreaded, Parallel, & Distributed Programming Language Spring Boot OCR Algorithm Named-Entity Recognition Multithreaded Programming

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Macroservices: Keycloak - Spring Cloud Api-Gw/Eureka Web SSO Infra

My role. Software Designer/Architect

Project description.

A lightweight Spring microservice architecture case study: keycloak(jwt token auth, sso between multiple webapps, web/restapi security), spring api-gw, spring eureka with an Angular 20 UI(Nebular Theme)

Frontend

Angular 20, Nebular 16
Uses angular-oauth2-oidc client lib

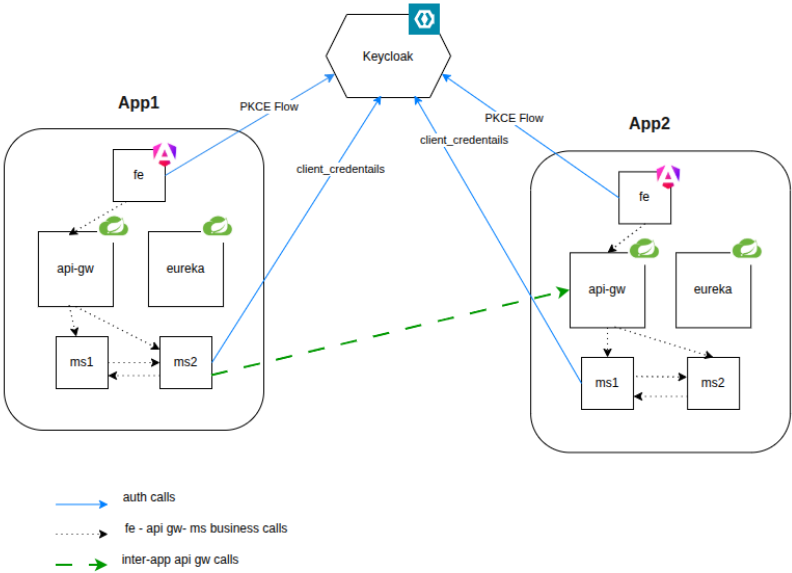
Backend

Spring microservices setup with spring cloud version: 2025.1.2(1 eureka server, 1 spring cloud api gw, 2 business microservices)
There are 2 app groups which can consume each others backend APIs in a secure manner
Keycloak: <https://www.keycloak.org/>
Nebular Theme: <https://akveo.github.io/nebular/>

Skills and deliverables

- Microservice
- Spring Boot
- Angular
- Single Sign-On
- OAuth

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KafkaOrbit

My role. Architect/Lead Developer

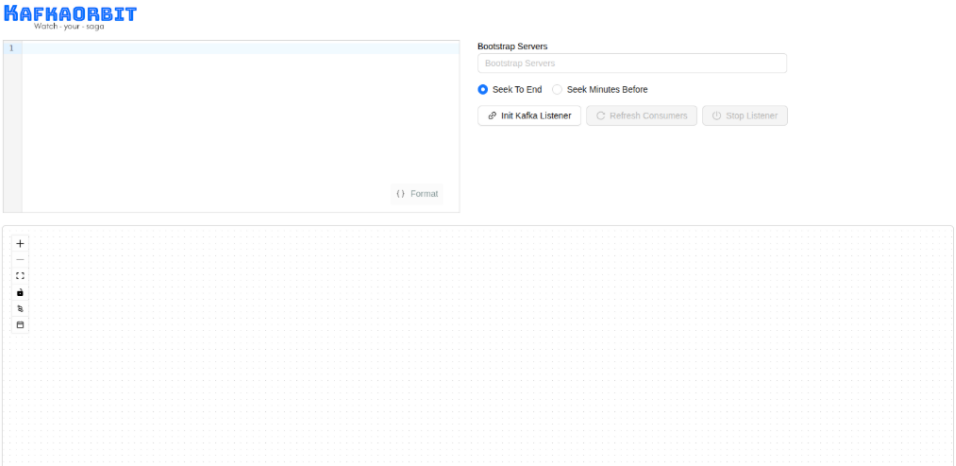
Project description.

It's a tool that makes microservice saga flows traceable, roughly speaking. It makes it easy to track complex and asynchronous happy path/compensation flows between dozens of microservices/asynchronous message queues. It facilitates tracking desired flows (a specific order/reservation, etc.) in development or test/production environments and examining how they have progressed. It speeds up the resolution of errors in complex flows.

Skills and deliverables

-
-
-
- PostgreSQL
- MySQL

Published on Jul 14, 2026



Realtime Stock Exchange Architecture

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Project description.

Real time stock bid/ask architecture was designed.
Minimum latency, real time client notification and transaction order requirements were strict.

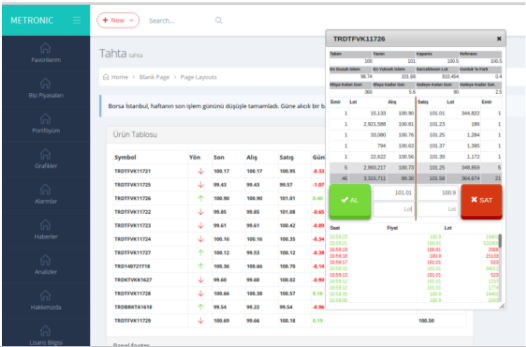
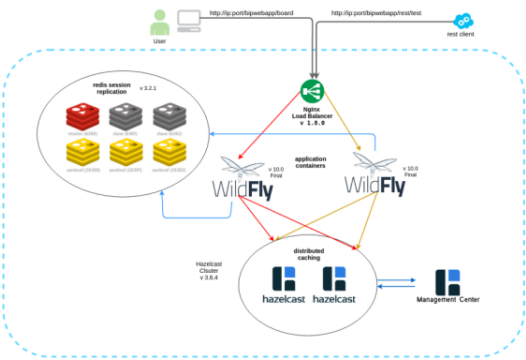
Technologies/tools used: JDK 8, wildfly 10, servlet 3.1, spring framework 4.x, spring mvc 4.x, websockets, spring session(session replication), redis, sentinel, hazelcast(in-memeory data grid, distributed lock) and it's mancenter, mybatis, apache tiles, jstl, javascript.

Skills and deliverables

- Spring Framework
- Websockets
- Redis
- Spring Session
- Java

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Load Test Tool Realtime Data Collection

[Copy link](#)

My role. System Designer

Project description.

A real time data collection pipeline was designed for a Jmeter based distributed load testing tool.

Load test tool was a distributed one and runs on AWS machines. Jmeter script is uploaded on AWS machines and a custom jmeter agent sends generated request/response data to multi-node Elasticsearch cluster. Elasticsearch consumes this data and executes real time aggregation queries. The results are shown as graphs on the test tool gui, data transferred through websockets.

Technologies: JDK 7, Spring boot, Elasticsearch, hibernate, mySQL, JMeter, Maven, AWS, websockets.

Skills and deliverables

- Elasticsearch
- Hibernate
- AWS Development
- Apache JMeter

