

Curriculum Vitae

Summary

Proactive and communicative engineer

Continuous learner - the more I know the better tool for the job I can choose

System architect looking far and wide on a system, who is fullstack software developer and devops in the first place

I love solving difficult problems and making life easier

I always want to make positive impact on organization and coworkers, improve and automate processes

Advocate for functional programming, soa done right and continuous delivery

Work experience

05.2020 – now

Software Engineer / Software Architect / Cloud Engineer – Signicat

- Designing and programming serverless system for delivering identified and verified customer's data and documents for banking industry in oauth flow
- Developing architecture for monitoring users activities during business process with users and clients notifications
- Designing fully unit testable serverless architecture in purely functional style
- Creating architecture for automated end to end testing for cloud deployed system with full control over data
- Implementing components integrations, monitoring and alerting in asynchronous, message based system
- Taking initiative of improving codebase with functional design patterns
- Creating infrastructure as a code for cloud resources and continuous delivery deployment process
- Developing system for automating document workflow for business clients registrations
- Chosen technologies: typescript, serverless, node.js, aws cloud, c#, asp.net core, ef core, asp.net identity, terraform

11.2019 – 05.2020

System Architect / FullStack Developer / Cloud Engineer / DevOps – Ergo Digital It

- Designing and programming software standards and standard architecture for backend apps in newly created systems
- Developing tools for simplifying automated deployment of frontend applications in cloud architecture
- Creating architecture and tools for deploying and managing multiple applications in shared kubernetes cluster in cloud environment
- Taking initiative of creating solution for migrating chosen applications to serverless architecture
- Chosen technologies: javascript, typescript, node.js, nest.js, express.js, aws cloud, serverless, cloud formation, docker, kubernetes, istio, shell, ansible

03.2016 – 11.2019

Software Engineer / Software Architect / FullStack Developer / DevOps – mBank s.a.

- Designing and programming bank's transactional system for individuals and small companies. Frontend and backend development, system architecture, deployment tools and processes architecture and development, processes improving
- Simultaneous active member of business and architecture teams. Designing infrastructure solutions, being pro-active to other teams, sharing knowledge with coworkers and teams. Working with business and realization of business tasks
- Taking initiative of improving way of frontend development, designed and created solution which optimizes frontend development and saves developer's time. Implemented own pet project microfrontends into production, which enabled introducing newest technologies without rewriting whole system. Designing and creating new version of transactional system's frontend layer from the ground up

- Being first engineer who took initiative to become devops. Being responsible for deployments to cloud dev environment, improving deployment processes, helping all teams with deployments to all environments and solving problems with build tooling. Being responsible for applications containerizing. Being first (with coworker) to introduce and make trainings of kubernetes and cloud deployment processes. Sharing knowledge about deployment processes and implemented own pet project devops on-premise in cloud dev environment as a tool for all teams
- Making trainings for coworkers containing deployment tools and processes, system architecture, frontend programming and unit testing. Supporting all teams in deployment, architecture and development. Being pro-active and taking initiative in subjects of architecture, programming and build and deployment processes
- Chosen technologies: .net, .net core, c#, javascript, typescript, react.js, redux.js, backbone.js, aurelia.js, node.js, webpack.js, require.js, express.js, hapi.js, html, css, asp.net.mvc, asp.net.webapi, wcf, powershell, docker, ansible, jenkins, octopus deploy, kubernetes, iis, msbuild

03.2014–10.2014

Software Engineer – Itmagination

- Building web application for orders planning and communication between pharmaceutical company and its clients
- Engineering design and development of application for management of chemical materials distribution flow. Business requirements analysis, application and database architecture and development
- Development of distributed enterprise system, which automates management of global corporate
- Chosen technologies: .net, asp.net.mvc, entity framework, nhibernate, nservicebus, castle windsor, quartz.net, mssql, t-sql, javascript, jquery, git

07.2013 –10.2013

Software Engineer - Innotion sp. z o.o.

- Development of mobile web application helping with decisions processes during construction auctions
- Maintenance of management system for country-wide construction company. Integration of previously built web application with existing platform
- Chosen technologies: .net, asp.net.mvc, entity framework, mssql, t-sql, javascript, jquery mobile, git

Pet projects

Purely Functional Modular Monolith with DDD

Purely functional implementation of a meetup system. Functional data structures and design patterns as no side effects, make impossible states impossible with union types and records, monads, free monads, monad transformers, applicative validation, no nulls, no exceptions. This approach enables full control over program execution without surprises and fully unit testable business logic, while preserving loose coupling between components. In plans are purely functional data streaming, free applicatives and more advanced functional design patterns. Chosen technologies: .net core, ef core, f#, nservicebus, mssql, fsharpplus

CompositeUI.js

Implementation of frontend layer of a system in soa architecture. Transparent integration of independent client-side components from different, vertically sliced, services with each other into one spa web application. It enables fully vertical separation of services in a system and independent deployments also on frontend tier. Chosen technologies: typescript, react.js, redux.js, node.js, webpack.js, rollup.js

DevOpsOnPremise

Fully configurable cloud-like kubernetes cluster with automated on-premise installation. It enables almost all cloud solutions and also contains integrated with each other popular operational tools. Whole solution contains ready to use infrastructure for implementing CI/CD processes. Chosen technologies: docker, ansible, jenkins, kubernetes, nexus, vagrant

Microfrontends

Implementation of integration different javascript frameworks with each other in one spa web application. This way one can develop application's modules using modern tools and infrastructure, without rewriting whole system. Chosen technologies: javascript, aurelia.js, backbone.js, require.js

CompositeUI

Library which enables transparent integration of independent web applications with each other into one web application container. Created with soa architecture in mind. Chosen technologies: .net, asp.net.mvc, nservicebus, castle windsor, javascript, jquery, pubsub.js, iis

Grapher

Computational cluster intended for graph algorithms and big data. Computation time multiple times shorter than on graph database. Chosen technologies: .net, neo4j, redis, signalr, tpl, linq, asp.net.mvc

Education

03.2015 – 07.2016

Warsaw University of Technology (master's degree)

Faculty: Mathematics and Information Science

Subject: Computer science

Specialization: Artificial intelligence

10.2011 – 03.2015

Warsaw University of Technology (bachelor's degree)

Faculty: Mathematics and Information Science

Subject: Computer science

Final grade: 5

10.2008 – 10.2011

Warsaw University of Technology (bachelor's degree)

Faculty: Mechatronics

Skills

solution architecture, software architecture, software development, distributed systems, enterprise systems, frontend architecture, frontend development, backend architecture, backend development, cloud computing, cloud architecture, deployment architecture, deployment development, continuous delivery, design patterns, automation, scalability, soa, microservices, serverless, solid, clean code, unit tests, tdd, property based testing, integration testing, object oriented programming, functional programming, concurrent, parallel, asynchronous, reactive, aspect oriented programming, performance optimization, algorithms, network protocols, oauth, web applications, progressive web, systems integration, relational databases, nosql databases, .net, .net core, c#, f#, javascript, typescript, sql, t-sql, powershell, shell, asp.net.mvc, asp.net webapi, giraffe, entity framework, signalr, rx.net, nservicebus, rest, message queue, graphql, rabbitmq, react.js, fable elm, webcomponents, backbone.js, aurelia.js, redux.js, rx.js, node.js, nest.js, express.js, hapi.js, aws cloud, cloud formation, terraform, docker, jenkins, ansible, octopus deploy, kubernetes, istio, vagrant, iis, msbuild, webpack.js, rollup.js, require.js, castle windsor, inversify.js, mssql, dynamodb, neo4j, redis, mongodb, git, scrum, ubuntu, centos, windows, rider, visual studio, visual studio code

Trainings and certificates

Advanced Distributed Systems Design using SOA & DDD by Udi Dahan, 04.2020

Talks and awards

How I became a DevOps

Presentation of DevOpsOnPremise project (date in near future)

SOA CompositeUI.js

Presentation of CompositeUI.js project during 31th meet.js Warsaw meetup

Introduction new technologies into existing SOA project

Presentation of Microfrontends project during meet.js Warsaw meetup

CompositeUI in SOA architecture

Presentation of CompositeUI project during 93th Warsaw .NET group meetup

Rector's award for student's performance

Languages

English - intermediate (FCE certificate)

Interests

psychology, personal growth, dancing, car racing, martial arts

I agree to the processing of personal data provided in this document for realizing the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)