Piotr Szymura | Software Engineer

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Technical Skills

Languages: C#, Javascript, TypeScript, SQL, HTML5, CSS3, Bash

Back-End: Distributed systems, Microservices, Consul, ASP.NET Core, TPL, Nancy, Dapper, OData, gRPC, nUnit, xUnit, Azure Functions, Node.js, Express.js, Koa.js

Front-End: React.js, Redux, Jest, TestCafe, Material-ui, Semantic-ui, D3, Bootstrap, Netlify

Databases: SQL Server, HBase, Solr

Tools: Graphana, Splunk, Jeager, Git, Team City, Octopus, Jira, Travis, AppVeyor

Experience

Technical Team Lead/Full-Stack Software Developer, Capgemini   4.2019 - Present

FaaS platform hosted on over 200 VMs, supporting serverless model of software development and delivery in pricing area.

- Led a team, consisting of 8 members with various experience and role.
- Investigated problems and redesigned architecture of the platform, by changing internal flow of data, removing bottleneck component and introducing Consul for service discovery.
- Rewrote existing microservices, changed their responsibilities and communication layer from DotNetty to gRPC. This decreased latency from minutes to seconds and from seconds to miliseconds.
- Restructured deployment strategy by splitting projects into more granular chunks, which decreased deployment time from around 20 minutes to few minutes and made one-click deployment technically achievable.
- Created a solution to allow platform clients to host static websites, which helped acquiring more tenants.
- Created a solution to discover and manage windows services at scale.
- Created user-friendly documentation using docusaurus to reduce amount of time and work needed to onboard new tenants.

Full-Stack Software Developer, Credit Suisse   8.2016 - 4.2019

Pricing platform, that uses microservices approach to real-time pricing of 20k+ structured products.

- In limited time of 6 months managed to deliver project, providing technical configuration of financial products at scale.
- Designed data model and implemented it, in order to replace SQL with HBase, to handle 300GB of daily audit data.
- Created interactive D3 UI to visualise audit data as a graph structure, showing different blobs of data and its dependencies.
- Created from scratch client-facing react SPA to replace old angular gui and offer new visuals and user experience.
- Implemented changes and fixed critical bugs to mitigate risk of financial loss due to prices availability on various exchanges.
- Supporting full project lifecycle, gathering requirements, setting up CI and CD, system design, implementation and support.

Full-Stack Software/BigData Developer, Credit Suisse   4.2015 - 8.2016

System aggregating trading activity to provide an hierarchical and real-time view of volume and revenue of the trading flow.

- Created dedicated website to monitor Solr and to illustrate potential capabilities of querying portfolio data.
- Implemented a solution to warn support in case of production instabilities.
- Contributed to templating system, that automates data-lake, needed to create trade product recommendation.
- Improved responsiveness and visuals of SPA, that simulates trading environment to teach about risks and principal trading.

Open Source

KeyJitsu: Quickly learn essential keyboard shortcuts and commands for programmers.

EtcdGrpcClient: Simple yet useful .net etcd v3 grpc client, available on nuget.

React-file-load: React component for loading data in chunks from sizeable files.

FastDictionaryComparer: Compare dictionaries in performant way, much faster than using linq.

Guardy: Simple and natural nested property accessor, available on npm.

Blog: Author of a blog with peeks up to 5k unique visitor per day.

Education

Bachelor degree in Teleinformatics, Wrocław University of Technology   2011-2015

Thesis: "Project and implementation of a network game using client-server architecture for mobile devices."