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

DevOps: 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 a serverless model of software development and delivery in pricing area.

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

Full-Stack Software Developer, Credit Suisse 8.2016 - 4.2019
Pricing system, that uses microservices approach to real-time pricing of 20k+ structured products.

- In a limited time of 6 months managed to deliver a 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 visualize audit data as a graph structure, showing different blobs of data and its dependencies.
- Implemented from scratch client-facing react SPA to replace old angular GUI and offer new visuals and user experience.
- Introduced changes and fixed bugs to mitigate the risk of financial loss due to the availability of prices on various exchanges.
- Supported 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 a hierarchical and real-time view of volume and revenue of the trading flow.

- Created a dedicated website to monitor Solr and to illustrate potential capabilities of querying portfolio data.
- Implemented a feature to warn support in case of production instabilities.
- Contributed to the 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 software engineering blog.

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."