[](https://www.certmetrics.com/amazon/public/badge.aspx?i=4&t=c&d=2018-02-23&ci=AWS00203247)Dmitry Livchak

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# Summary

AWS certified solutions architect. Currently leading digital transformations. 15 years of experience in running development shops, DevOps and security.

# Engineering Lead / Architect

Nationwide Building Society

### October 2018 – present Swindon, UK

I lead the team that delivered a new type of mortgage product to the market from the ground up in 9 months, with high confidence in quality and minimal technical debt. We introduced event-driven architecture with Kafka, .NET Core, React.js and SignalR. We organised software into domain-based microservices. I coached developers in cloud technology and CI/CD processes. I reorganised the DevOps collaboration, improving team efficiency with better CI/CD automation and optimised build times. I regularly engaged with product owners to align product and technology strategies. I also engaged with the security team to validate the safety of the new type of architecture and new technologies.

**Technology stack:** .NET Core, C#, Kafka, Kubernetes, Docker, MongoDB, MS SQL, SignalR, WebSocket, Jenkins, Groovy

**AWS stack:** Terraform, EC2, Container Services, AutoScaling, CloudFront, VPC, Route53, IAM, RDS, SES, CloudWatch

**Methodologies:** BDD, TDD, Agile, Scrum, DevOps, Mentoring, Coaching

# Cloud Architect

Corethree

### September 2018 – October 2018 London, UK

Corethree business is selling bus tickets around the world. Company had to handle significantly more traffic due to business growth. In a short two weeks engagement I have designed and implemented an infrastructural solution for traffic segmentation, resource scaling and request throttling. We gradually directed traffic to the new infrastructure, which gave a significant improvement in system reliability while the release caused zero downtime and no disruption to business.

**Technology stack:** NodeJS, .NET Core, C#, JavaScript

**AWS stack:** AWS CloudFormation, API Gateway, Lambda, EC2, AutoScaling, CloudFront, VPC, Route53, IAM, CloudWatch

**Methodologies:** Agile, Lean, DevOps, Mentoring, Coaching

# Cloud Architect

Perfect Channel

### April 2018 – September 2018 London, UK

Digital platform transformation towards AWS serverless microservice architecture. Built team’s confidence in serverless technologies and AWS with extensive coaching and pair-programming . Guided architectural team in technology selection in AWS. Automated CI/CD pipeline with CodeBuild and Octopus Deploy. Provided guidance to DevOps team on AWS governance.

**Technology stack:** NodeJS, TypeScript, .NET Core, WebAPI, C#, JavaScript, React.js, CSS, SASS, MSSQL, CouchBase, Octopus Deploy, Docker, GitHub

**AWS stack:** AWS CloudFormation, Container Services, Fargate, , API Gateway, Lambda, X-Ray, EC2, AutoScaling, CloudFront, VPC, Route53, IAM, CodeDeploy, RDS, ElasticSearch, DynamoDB, SQS, SNS, SES, CloudWatch, CodePipeline

**Methodologies:** BDD, TDD, Agile, Scrum, DevOps, Mentoring, Coaching

# Lead Architect / Principal Developer

The Travel Corporation

### May 2015 – March 2018 London, UK

Company's architectural vision. Cloud infrastructure and security solution design and continuous improvement. Mentoring to senior tech staff. Introducing DevOps mentality and practices into delivery teams. PCI DSS compliance implementation. TDD implementation across all dev teams, BDD implementation business-wide. Amazon Cloud (AWS) automation, blue-green zero downtime deployments, shifting software deployments from Windows to Linux.

**Notable achievements and projects:**

* Leading and implementing company’s shift to AWS.
* Rebuilding booking API. This required quite a lot of data mining and processing. We had a single Oracle database and a monolith Java app as two bottlenecks. We have then shifted to a microservice architecture and moved to AWS. We used AWS API Gateway serving relatively static data from S3, using Lambda for pre-authorising users, rebuilt some complicated pricing logic to be client side. Not only this boosted performance by the magnitude of 1000, it also made system much more reliable and fully covered with automated functional tests.
* Migrated 300,000 agent identities from heterogenous sources to a corporate SSO system with no disruption to agent’s work. This included a thorough analysis of several databases, data cleansing, merging and export to AWS environment.
* Automated travel documentation generation and distribution with AWS SQS, S3, SES and CloudFront and NServiceBus. Integrated with SalesForce for registering sent communication.
* Leading a global company switch to a single payment provider. Implementing a corporate payment gateway for PCI DSS compliance.
* Introduced functional end-to-end testing practices with automated test environment provisioning and teardown in AWS.
* Introduced zero downtime and Blue-Green deployments in AWS
* Mentored 20 developers in AWS. 4 qualified as AWS Certified Solutions Architect – Associate.
* Introduced BDD as a standard for software delivery with a great success and recognition from product owners and business users.

**Technology stack:** NodeJS, ASP.NET MVC, WebAPI, NServiceBus, C#, JavaScript, AngularJS, React.js, JQuery, CSS, SASS, MySQL, DataDog, TeamCity, Jenkins, Docker, GitHub

**AWS stack:** AWS CloudFormation, EC2, Container Services, AutoScaling, CloudFront, VPC, Route53, IAM, CodeDeploy, RDS, ElasticSearch, DynamoDB, SQS, SNS, SES, CloudWatch, Lambda, CodePipeline

**Methodologies:** BDD, TDD, Agile, Scrum, DevOps, Mentoring, Coaching

# Technical Lead

The Travel Corporation

### March 2014 – April 2015 London, UK

Solution design, solution development, test automation, shifting deployment model towards cloud (IaaS and PaaS), E-commerce platform migration, E-commerce integration with SalesForce, Single Sign On implementation and integration with multiple travel brands, technology research and adoption, systems' integration, review of legacy systems' design and performance.

**Technology stack:** ASP.NET MVC, WebAPI, C#, JavaScript, KnockoutJS, JQuery, CSS, SASS, MS SQL, Oracle, Jenkins, Mercurial

**AWS stack:** AWS CloudFormation, EC2, VPC, Route53, IAM, RDS, CloudWatch

**Methodologies:** TDD, Agile, Scrum, Coaching

# Senior Software Developer

The Travel Corporation

### May 2013 – March 2014 London, UK

E-commerce platform refactoring and enhancements. API development. Software and security design.

**Technology stack:** ASP.NET MVC, WebAPI, C#, JavaScript, KnockoutJS, JQuery, CSS, SASS, MS SQL, Oracle, Jenkins, Mercurial

**AWS stack:** EC2, VPC, Route53, IAM, RDS, CloudWatch

**Methodologies:** TDD, Agile, Scrum

# Lead Software Developer

RIX Technologies

### March 2012 – April 2013 Riga, Latvia

Systems design and development, liaison with corporate and government customers' IT, working closely with company's partners, systems integration

**Technology stack:** SiteCore, ASP.NET MVC, WCF, C#, JavaScript, JQuery, DevExpress, CSS, MS SQL, Clusterpoint (NoSQL), SVN

## Senior Software Developer

Gurgle.com

### February 2011 – February 2012 London, UK

Optimised website load times and responsiveness. Time to first byte 90ms instead of 3s. Implemented mobile-aware front end. Improved gurgle.com CMS user experience, allowing seamless and intuitive content editing. Migrated gurgle.com website from ASP. NET Web Forms to ASP.NET MVC.

**Technology stack:** ASP.NET MVC, C#, JavaScript, JQuery, CSS, MS SQL, SVN

**AWS stack:** EC2, VPC, Route53, IAM, CloudWatch

# Technologies and skills on previous projects

**Technology stack:** ASP.NET Web Forms, WCF, SOAP Services, C#, JavaScript, JQuery, DevExpress, CSS, MS SQL, MySQL, SourceGear Vault, MS SourceSafe

**Methodologies:** Agile, Scrum, Iterative Waterfall, Coaching, Line Management, Account Management

#### Project Manager

Diatom Enterprises, December 2007 – February 2011, Riga, Latvia

#### Senior Software Developer

Diatom Enterprises, December 2006 – December 2007, Riga, Latvia

#### Software Developer

Diatom Enterprises, August 2005 – December 2006, Riga, Latvia

#### Software Developer

JSC "Softex Latvia", August 2004 – August 2005, Riga, Latvia

# Languages

* English – fluent
* Latvian – fluent
* Russian – native
* Hebrew – elementary

# Academics

* University of Latvia, Computer Science, 2003 – 2007
* Riga Jewish School, 1992 – 2003