Erdem Sahin
Resume

Career Objective

An experienced *hands* **on** DevOps Transformation Architect who focuses on continuous delivery**.** He recognises as well as understands the needs of client and has the ability to work on his own or as part of a team to deliver projects.

Experience Summary & Education

Finished Severna Park High school in Maryland / Usa. My interest in computers lead me into Computer Information Technology at Southern New Hampshire University.

Passionate about software projects and challenging architectures such as continuous delivery. Having experience of leading teams more than five engineers. Erdem is a full stack developer who loves to explore.

Contributions / Achievements

- Started Devops contracting business in United Kingdom.
- Cloud solution architect at *Microsoft* transforming enterprises to the cloud
- Manager at *Accenture* and responsible for quality assurance of multiple projects.
- Build an actively used social platform for *British American Tobacco*.
- *Architect* of an ad server platform which serves up to *billion views per month*.
- Build a personality assessment program which was used by *3 million users*.
- Build a *big data* system for Turkey's leading sports gaming provider Iddaa.
- Build white label *Bitcoin* exchange system which supported continuous delivery.
- Most valuable professional of object oriented database Versant / db40.
- Contribution to the open source communities and projects related to AI.
- Build a secure microservice platform for Ireland train system.
- Build a Kubernetes platform for a telecom company on premise.

Value Proposition

Continuous Delivery (CD) is a software strategy that enables organizations to deliver new features to users as fast and efficiently as possible. The core idea of CD is to create a repeatable, reliable and incrementally improving process for taking software from concept to customer. The goal of Continuous Delivery is to enable a constant flow of changes into production via an automated software production line. The Continuous Delivery pipeline is what makes it all happen.

What does he deliver as a contractor ?

- Keep the team at high performance focus on automation from day one.
- Help devs to build testable code with less effort.
- Force trunk based development and communicate with the team.
- Help operations to have system that can be rebuild easily
- Make agile work better.
- Setup monitoring systems
- Create metrics that creates value such as speed to deploy.
- Make complex technology work in a simplified manner.
- Include security early on the project.
- Implement technical practices.sonarqube
- Technical debt management.
- Kanban Wip limit implementation.
- Creates Automated tests.
- Divide and conquer tasks.
- Pair programming don't let groupthink.
- Communicate with the 3rd parties
- Implement zero exception policies.
- Maturity Assessment
- Software Estimation

Projects

Client	**Concentra Analytics**
	Pexabo (UK Contracting Company)
	(Apr 2019 - Present 2019)
Problem	
Anticipated C.	
Role	Senior DevOps Engineer
Action	
Decision Rationale	
Technology	CloudFormation, S3, EC2, AWS Lambda, API Gateway, RDS (PostgreSQL), RedShift, KMS. App Services, Azure Functions, Azure SQL Database, Azure Storage, Azure AD, Azure Data Factory, Key Vault. Continuous integration technologies such as Jenkins, Team City. Configuration Management tools such as Puppet or Chef. Programming languages (Python, Ruby, PowerShell, C#), Docker, ECS/EKS/Kubernetes and container CI/CD pipelines. Azure VSTS, Chef Ruby cookbooks, Puppet modules. of Networking, Routing, IPSec Tunnelling, Security Ports, Firewalls, Egress/Ingress, IAM, Ciphers, and Encryption. Administering Linux or Windows systems at the command-line level, of Agile techniques such as SCRUM. Packer generation. Built and operated on cloud platforms (AWS and Microsoft Azure)
Client	**Smart Space Software Plc**
	Pexabo (UK Contracting Company)
	(Dec 2018 - Apr 2019)
Problem	Service Fabric Migration, scripting Continuous

	integration for on-premise deployments
Anticipated C.	Unable to implement multi tenant architecture
Role	Senior DevOps Engineer
Action	Implement CI via scripting with PowerShell
Decision Rationale	Cloud agnostic, multi vendor architecture
Technology	AD, Windows, PowerShell. Service Fabric, Office 365, Microsoft Server, Amazon Web Services, Scripting & Automation, IaaS, PaaS and Serverless Environments, Managing cloud solutions (Microsoft Azure and AWS), TeamCity, Octopus Deploy, VPN, Installers, Active Directory, Kerberos, .Net, Choco, Proget, ELK, RabbitMQ

Client	**Red Box Recorders**
	Pexabo (UK Contracting Company)
	(Oct 2018 - Dec 2018)
Problem	Kubernetes Migration
Anticipated C.	Poor container visibility and troubleshooting
Role	Senior DevOps Engineer
Action	Create Kubernetes Environment on-premise and in the cloud and migrate workloads
Decision Rationale	Support for multi environments
End Result	Full orchestrated CQRS architecture with containers
Technology	Vagrant, Docker Compose, On-Premise, Vmware, Centos, Kubernetes, Load Balancers, Feature Toggles, Release Flow, Bash Scripting, Terraform, Arm Templates, CQRS Microservices, Git, API Gateway, Reverse Proxy, Multi-Cloud, ELK (Elasticsearch, LogStash, Kibana), EventStore, Minio, Redis, LXD, Nginx, MetalLB, Traefik, Yaml,

Ingress Orchestration, Helm, Network Architecture, Microservices Logging

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Client	**MMT Digital**
	Pexabo (UK Contracting Company)
	(June 2018 - October 2018)
Problem	Continuous Delivery
Anticipated C.	Container / Docker Migration
Role	Senior DevOps Engineer
Action	Create necessary hosting environments
Decision Rationale	Agency deadlines and constraints
End Result	Full containerized microservices architecture
Technology	Configuration Management, Docker, Security Patterns, Automation, Azure, Linux, .Net Core, ASE, VSTS, Octopus, Bash, CI, Slack integration, Containers, Container Registry, Infrastructure As Code, SSL, SSH, Terraform, Microservices, Kentico, Bash Scripting, Aws, Networking, Kubernetes, ESB, Docker, Digital Ocean,Trello

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Client	**Craneware**
	Pexabo (UK Contracting Company)
	(March 2018 - June 2018)
Problem	Continuous Delivery
Anticipated C.	Delivery pipeline setup
Role	DevOps Architect
Action	Create Continuous Delivery pipelines

Decision Rationale	Assessment and implementation
End Result	Establish continuous delivery to multiple environments
Technology	VSTS,Azure,ChatOps,Site24x7,Cloud Shell,Automation,Releases,Builds,Kanban, Application Insights,Git Flow,Real Time monitoring,Logic Apps,Enterprise Integration, Log Analytics, Kafka

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Client	**Scottish Enterprise**
	Pexabo (UK Contracting Company)
	(Aug 2017 - March 2018)
Problem	Continuous Delivery
Anticipated C.	Delivery pipeline setup
Role	DevOps Architect
Action	Create Continuous Delivery pipelines
Decision Rationale	Assessment and implementation
End Result	Establish continuous delivery to multiple environments
Technology	Docker,VSTS,Azure,Service Bus,Active Directory,CloudShell,Automation,Releases,Builds, Kanban,Application Insights,Git Flow,Real Time monitoring, Helm, Kubernetes, Docker Compose

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Client	**Ticket Arena - Boomerang Funding**
	Pexabo (UK Contracting Company)
	(May 2017 - July 2017)

Problem	Hectic delivery process
Anticipated C.	Long deployment times
Role	DevOps Architect
Action	Create Continuous Delivery pipelines
Decision Rationale	Understand the holistic approach,assessment and implementation
End Result	Daily deployments to multiple environments
Technology	VSTS,Azure,Service , C#, Fabric,Octopus,PowerShell,Azure ARM, Scrum,Application Insights,GitFlow

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Client	**Holovis - PlayNation**
	Pexabo (UK Contracting Company)
	(April 2017- May 2017)
Problem	Scoring system for an augmented reality game
Anticipated C.	Long deployment times
Role	Implementation & Architecture
Action	Creating the backend of an augmented reality game
Decision Rationale	Build a cost effective and scalable system
End Result	Maintainable code base by the permanent employees
Technology	Jira,Azure,Asp.Net MVC,, C#,Web Api, SQL RDS, Web Apps,Google Maps,Unity 3D,Kanban,RDBMS design, Unit Testing,Git, Unity Collaboration

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Client	**Microsoft**
	Dec 2015 - Oct 2016

Problem	Migration resistance to cloud computing
Anticipated C.	High cost , increasing risk
Role	Cloud solution architect
Action	Architectural design meetings, proof of concepts, implementation of specific products
Decision Rationale	Critical thinking with stakeholders understand the holistic approach of the enterprise
End Result	Consumption of cloud resources.
Technology	IAAS,PAAS,SAS, VSTS, Azure, Service Fabric,PowerShell,ARM, Application Insights, Web Apps, HPC, Scheduler, Virtual Networks, Express Route, CDN, Akamai, Event Hubs, API Management, Storage, Backup, Site Recovery, Marketplace, Automation, Service Bus, Open Source

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Client	**Accenture**
	01.2015 - 01.2016
Problem	Increasing cost, delayed projects and satisfied customers
Anticipated C.	Post-production errors
Role	Manager
Action	Software development life cycle management, Continuous delivery
Decision Rationale	First principles, root cause analysis
End Result	Continuous improvement and daily releases with test automation
Technology	Java,SonarQube,Azure,Jira,Bamboo, Waterfall, V Model, Software Estimation,Jenkins, Git, J

Client	**Net Holding / BtcTrader**
	(Financial Exchange Services)
	03.2014 – 01.2015
Problem	Project not adaptable for change
Anticipated C.	Increasing cost and technical debt
Role	Software Architect / Consultant - DevOps
Action	Analysis of technical debt, Applied Kanban, implemented continuous integration, Advanced systems for continuous deployment, Nuget Service, Micro services architecture, Code Contracts, Migration to multiple cloud providers,Unit/Acceptance testing
Decision Rationale	Loosely Coupled , Security oriented
End Result	Daily deployments, White label expansion started and application lifecycle management improved
Technology	Jira,Azure,Rackspace,C#, AppVeyor,PowerShell,Kanban, Loggy,Mercurial,Bitbucket

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Client	**Iddaa**
	Bilyoner,Nesine,Cnn Turk,Ntv Spor,Al Jazeera,Hurriyet,Ages
	08.2013 – 03.2014
Problem	Not integrated environment, short retention rate at development teams
Anticipated C.	Too many errors from existing products
Role	Software Architect
Action	Implemented continuous integration, Kanban project management,Aspect oriented programming,Service oriented architecture
Decision	Loosely Coupled , Performance oriented

Rationale	
End Result	Developer retention
Technology	AWS,C#, NCache, Asp.Net,Angular, Knockout,Site24x7

Client	**Tubitak / Metin Madencisi**
	08.2012 – 08.2013
Problem	Building a platform to compete with Google Adwords
Anticipated Consequence	Limited budget project needed innovation at the core of the platform
Role	Tech Lead / Software Architect
Action	Build systems on Amazon platform as an early adopter, build dynamic scaling systems
Decision Rationale	Performance oriented, Budget oriented,
End Result	ystems that scaled up to billions of views and supporting thousands of publishers and advertisers
Technology	CDN, VSTS,AWS, C#,Configuration Management, PowerShell, Scrum,

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Client	**PlusCanvas.com / Parabol Advertisement Agency**
	(ILKON Contractor)
	10.2011 – 10.2012
Problem	Existing ecommerce platform was not sufficient
Anticipated Consequence	Old platform was blocking the growth of the company
Role	Consultant / Contractor
Action	Implemented NopCommerce, created the

	necessary team to customize the product
	Monolithic architecture refactoring
Decision Rationale	Timeboxes,limited budget, using open source platforms
End Result	Implemented on time and created an extendable platform
Technology	AWS,Azure,VSTS,NopCommerce,AWS Lambda,IoC,Solid Design Principles

Client	**Turkcell / Tellcom**
	(ILKON Contractor)
	09.2010 – 08.2012
Problem	Performance problems related to the billing systems
Anticipated Consequence	Systems unable to create invoices to the customers and costed company million dollars every quarter.
Role	Data architect / Contractor
Action	Migration of Sql server and Oracle systems, Build integration systems
Decision Rationale	Performance and integration oriented
End Result	Migration completed and important savings from business process automation.
Technology	SQL Server,Oracle

Client	**British American Tobacco / Prominds**
	(ILKON Contractor)
	11.2007 – 09.2010
Problem	Sharing and tracking mobile agents was a big challenge

Anticipated Consequence	Disconnected teams and poor performance
Role	Consultant / Contractor
Action	Lean software development,MVP
Decision Rationale	Rapid application development
End Result	Actively used application more than 2.000 subscribers
Technology	Asp.Net , MVC, Amazon

Client	**Tubitak / TopAir Civil Aviation** **(ILKON Contractor)** 11.2007 – 12.2009
Problem	Sams
Anticipated Consequence	MRP for private airplane support
Role	Consultant / Tech Lead / Contractor
Action	Uml design, Pattern oriented software architecture,Test driven design
Decision Rationale	Government regulations, CMMI specifications for defence contracts
Technology	Azure, VSTS,c sharp

Client	**Kariyer.net / Glosis** **(ILKON CTO)** 11.2004 – 12.2006
Problem	Turkey's leading career site needed better categorization of candidates
Anticipated Consequence	Online character assessment test

Role	Consultant / Tech Lead / Contractor
Action	Greenfield project. From business analysis to implementation
Decision Rationale	Customized design for Turkish culture, Service oriented architecture
End Result	Cost efectıve scalable system
Technology	AWS, CSharp, .Net Framework

Client	**Bilge Adam / Software Development Schools (ILKON Contractor)**
	09.2004 – 08.2005
Problem	Java technologies were not adopted by corporates
Role	Consultant / Contractor
Technology	C Sharp Java
	Visual Studio, Eclipse, Netbeans

Client	**Kahins Research (Urbana Champaign Illinois) (ILKON Contractor)**
	11.2002 – 09.2004
Problem	Products and services are changing.
Anticipated Consequence	Domain modelling high cost
Role	Developer / Scrum Master / Contractor
Action	Creating research team, needs adaptive Object Oriented Design model to map entities at runtime. Design concept by University of Illinois
Decision Rationale	Prototype building for proof of concept
End Result	Metadata explorer
Technology	Visual Studio, Asp.Net, .Net Framework

Skill Summary

TYPE	SKILLS	YEARS	USE CASE
Language	c#	+8	Build more than end to end +10 projects.
	java	+2	Gave java courses more than a year for college undergraduates. Did code quality control for the top banks in Europe.
	javascript	+6	Build more than +6 web projects including trading engines and sports side with many interactions.
	Python	+1	Used for devops automation scripting and debugging
Databases	Mongodb	+2	Build +2 projects with it. Used on site and the cloud versions with ObjectRocket
	Sql Server	+8	Build +6 projects. Did +4 ETL transformations. Did Oracle to Sql server migrations. Did 32 bit to 64 bit migrations for telecom companies.
	Hadoop	+3	Build +2 projects .Used it in adserver, PoC in UniCredit
	Dynamodb	+3	Build +2 projects. Used it in project with dynamic scaling attributes.
	Amazon RDS	+4	Build +4 projects.
	Redis	+3	Build +3 projects. Addserver with online analytics
	MySQL	+2	Build +1 projects.
	db40	+2	Build +2 projects. Became a MVP.
	ElasticSearch	+1	Build +1 projects. Love the idea and the distributed databases and the search database concept
Tools	Visual studio	+8	Build +10 projects. Avid learner. Love channel9
	VSTS	+5	Delivered +5 projects using Visual Studio Online Used scrum and kanban, created burndown charts
	Unity 3D	+2	Build +5 projects. Focused on Artificial intelligence systems
	Apple	+1	MacOs,Itunes App Store deployments
	Chef,Puppet	+1	Build PoC's for the Microsoft Azure platform

SSH, Bash	+2	Daily usage to manage servers in the cloud
Terraform,Ansible	+1	Build Iac for the projects to implement immutable infrastructure
Octopus	+1	Migration from VSTS to Octopus for Service Fabric Deployments
Service Fabric	+1	Deployment of microservices and setting up with ARM
Powershell	+3	Automation scripts to create the deployment pipeline
Linux	+3	Automation tasks, testing systems, containers, Cloud and on premise, Digital Ocean, Ubuntu
MacOs	+2	Daily usage of terminal, Unix-like Mac OS X
Docker	+2	Containers and microservice implementation
Windows Server	+10	Used and set up colocation servers. Prefer to use cloud. +20 powershell scripts for continuous integration.
Amazon Web Services	+5	Using multiple services in AWS. Thinking to become an AWS Architect.Tools: EC2,CloudFormation, Build +5 projects
Azure	+4	Using multiple services in Azure. Thinking to become an Azure architect. Build +3 projects. Used PaaS feature such as Azure websites and build +10 microservices and integrated with other Azure services.
Open Source	+3	Used various open source technologies. Such as linux,ubuntu,jenkins,nosql systems like redis,
Azure Resource Templates	+1	Created Infrastructure as code . Implemented continuous deployment pipelines
Trello	+1	Scrum and Kanban based task management
Amazon Workspaces	+3	Personal user of Amazon Virtual Workspace offering. Mobile and cloud based
Entity Framework	+6	Love ORM concept. Used EF in +6 projects
JQuery	+5	Build +5 projects.Did frontend development and

			keeping up to date with framework such as AngularJS.
	.Net	+8	Build +10 projects. Concentrated on IoC frameworks such as Unity. Have more experience in backend development
	Netbeans	+1	Taught lessons to undergraduate students for Java
	Asp.Net	+8	Build +8 projects. Used Webforms and MVC
	Eclipse	+2	Build +1 projects. In charge of +20 java projects for code quality
	Mozy	+3	Build +2 projects. Backed up relational databases for disaster recovery.
	Cloudflare	+2	Build +1 projects.Using cloudflare for dynamic scaling and for devops
	Teamcity	+2	Build +10 projects.
	Appveyor	+2	Build +20 projects. Learning from its co founder. And passionate about the subject of continuous delivery.
	Bamboo	+1	Build +5 projects.In charge of code quality and integration parts with the Sonar.
	Clickatell	+3	Build +2 projects. Used their API in two factor authentication and for marketing purposes.
	Logic Apps	+1	Build enterprise integration workflows
	New Relic	+2	Build +2 projects. Great tool for monitoring websites application performance
	TFS	+5	Build +5 projects. Did the setup and configuration.
	Git	+3	Build +3 project. Did conversions from CVS and TFS to git. Used bitbucket and stash(GitFlow)
	Nuget	+3	Build +3 projects.Used cloud nuget servers for internal libraries.
	Cdn	+3	Build +2 projects. Used it in ad server platforms with daily millions of users.
	Mercurial	+2	Build +1 projects. Migrated the libraries from in house to the cloud at bitbucket.

	Yourkit.net	+4	Used in +8 projects. Performance and memory optimization is a passion.
	Servicebus	+2	Used in +2 projects Used Azure service bus in a trading platform for notifications.ESB implementation
	Bitcoin	+1	Used +1 projects. Distributed peer 2 peer system. Used its Apis to do transactions and setup the SAS environments
	Selenium	+3	Used in +3 projects. Believe in continuous delivery and test automation. Creating acceptance test using c# drivers and integrating them to the continuous delivery systems.Used browserstack for a remote driver.
	NCache	+1	Used +1 project. Distributed caching system for .net. Used it in a sports gambling system where scores were changing constantly.
	NetScaler	+2	Used it +2 project. Load balancing for colocation sites. Prefer to use the cloud load balancers such as Amazon and cloudflare
	Nopcommerce	+1	Used +1 project. Great open source framework. Rebuild the pluscanvas.com.
	Google	+5	Implemented various products from Google such as maps,drive,enterprise email, cloud platform GCP
	Zoho	+3	Implemented various products from Zoho such as site24x7 for actively monitoring the resources
	Fargate	+1	Run containers without having to manage servers or clusters.
Methodology	Extreme programming	+5	Avid learner about methodologies , XP is a great way for this. Using the methods in +5 projects.
	Security	+5	Firewall management of networks, Db access control list management, Intercloud Connectivity VPN setups, endpoint security with CORS
	Agile	+6	Love the live approach motivation is the key for the progress.
	Continuous	+4	Created build servers and implemented Git flow.

	Integration		Daily integrations
	Scrum / Kanban	+5	Did +2 projects. Worked as Scrum master. Converted to Kanban after Scrums shortcomings. Love the active teams and communication for the work in progress limits. The idea and the implementation is great
	Infrastructure As Code	+2	Process of managing and provisioning in the cloud using declarative and imperative styles.Tools such as Ansible and Azure Resource Manager
	Rational Unified Process	+3	Doing the documentation in the projects. Care about lean and useful documentation.
	Cap	+6	Worked with many database systems. Implemented many systems including SQL and NoSql systems.
	Solid	+3	Strong believer in Object oriented design. Implementing +4 projects.
	DevOps	+5	Continuous delivery is the passion. Implemented Teamcity and Appveyor in +3 projects
	Test Driven Development	+4	Believe the power of test driven development.Binding the tests CI systems is one of responsibilities.
	Microservices	+4	Build +20 microservices for +4 projects. Believe in the divide and conquer concept. Familiar with Patterns of Enterprise Application Architecture
	Design patterns	+4	+2 research projects. Did a project of Joe Yoder implementing multiple design patterns.
	Cloud Patterns	+5	Build platforms using PAAS, IAAS and SAAS
	UML	+3	Did +2 research projects. Teach Uml and an active learner
	Code Quality	+2	Using tools such as Sonar. Code contracts and Solid design principles. Implementing documentation for quality standards in SDLC.
Marketing Automation	SEO	+4	+4 projects. Google analytics and Google trends
	SEM	+4	Managed 80.000 $+ in Google Adwords

	Buffer	+1	Social media marketing
	UI Path	+2	Build robotic process automation systems

Contact

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