MAGNUS OLSSON

SRE/DevOps/Developer/"Hands-on" Architect

CODING…

MERGE SUCCESS…

PROFILE

Magnus is a software engineer with 10+ years experience from

- DevSecOps

- CI and CD

- Software development

- Software architecture

- Building teams

The burning moto is that great energy comes when you are doing fun stuff

- Great team mates

- Word of value: Be humble, contribute, discuss, give-and-take, it is ok to fail as long as you learn from it ;)

- Use MOB programming

- Cool tech stack

- Try to do non-work hours stuff e.g. sports.

BUSINESS AREAS/INDUSTRIES
- IT
- Banking
- Finance
- Telecom

AREAS OF COMPETENCE
- Site Reliability Engineer
- DevSecOps
- Continuous Integration - CI
- Continuous Delivery - CD
- Cloud – AWS, GCP, Azure
- Hashicorp stack – terraform, vault
- Blockchain domain
- Solution Architecture
- Environments
- Test Automation
- Mobile development and testing for mobile devices (apps and responsive design)
- Technical Analysis
- ITIL

METHODOLOGIES
- Community-driven
- Agile methods
- ITIL

PROGRAMMING LANGUAGES
- JAVA
- Java Script
- C++
- PHP
- Script languages e.g. bash
- SQL

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EDUCATION

- 2003 - Computer Science 40 p, KTH
- 1999-2002 Bachelor of Science in Electronics 120 p, KTH

COURSES/CERTIFICATES

- AWS Certified Developer – Associate, 2019
- AWS Certified Solutions Architect – Associate, 2019

- SAFe, 2018
- Amazon AWS, 2017
- Microsoft Azure, 2016
- SonarQube, Solidify 2016
- Genemotion, 2016
- Service Virtualization, Parasoft 2015
- SEB IT Architecture course, SEB 2014
- Rational Test Virtualization Server, IBM 2014
- Mainframe system, IBM 2013
- WebSphere Portal, IBM 2012
- Trainee days in bank office, SEB 2011
- SEB UP – IT Development Process certification, SEB 2011
- ITIL IT process – certified in Incident Management, Problem Management, Change and Configuration Management, SEB 2010

EMPLOYMENTS

- 2017 Freelancer
- 2016-2017 Claremont
- 2010-2016 SEB - Test Specialist and Developer
- 2009-2010 SBAB - Test Environment Responsible
- 2008-2009 Sigma - Consultant
- 2007-2008 Tactel - Developer
- 2005-2006 Insignia Solutions - Device Support Engineer

LANGUAGES

- Swedish – Native
- English – Fluent
- German – Moderate

HOMEPAGE

- http://aooodata.com/

GITHUB

- https://github.com/magnus513

LINKEDIN

- https://www.linkedin.com/in/magnus-olsson-6329bb19/

SPEAKER

- SAST Q1 – "TAF – ett open source ramverk för testautomatisering"

ASSIGNMENTS (SELECTION)

2019-2021	**TELE2 (CONSULTANT ASSIGNMENT)**

INDUSTRY: Teleco

ROLE: Developer/DevOps

ASSIGNMENT: Team member of building the cloud journey for the B2B area.

TECHNOLOGY/METHODOLOGY: Java (Spring Framework), Maven, Jenkins, Docker, Kubernetes, Spinnaker, Hashicorp stack: (Vault, Terraform), Azure, New Relic, Elasticsearch.

CUSTOMER BENEFIT: Enabling new way of working: development process and CI/CD in the cloud.

First migration was done by building three environments in Azure. Everything was infrastructure-as-code in terraform. Four spring boot apps was migrated. This was done during 6 month and due to data restrictions rejected.

Second migration was done in on-preem IaaS kubernetes cluster. 60-70 apps was migrated into two k8s clusters.

- Enable and make Java Spring boot applications running in docker containers and orchestration in the k8s cluster. Actions for each app was:
    - Structure and store/fetch all configuration in Spring Cloud Config server
    - Make app stateless.
    - Add Spring Security.
    - Semantic version of artifact (app).
    - Backwards engineering: identify all integrations for consumers and make traffic work in k8s cluster.
    - Persistence data for apps in k8s.
    - Add Observability: Spring boot admin, Elasticsearch ELK stack and APM.
    - Confirm with end-users for new url/dns.
- CI/CD
- Quality. Break the build. Code analysis.
- Implementing new business logic into to microservice landscape. Java Spring.
- Decoupling of data/applications.
- Enable Observability pattern for microservice environments.
- OPENID/OAUTH flow(s) implementation. Curity.io
- SAML IDP implementation from IBM ISVA.

2019	**SANTANDER CONSUMER BANK (CONSULTANT ASSIGNMENT)**

INDUSTRY: Banking

ROLE: System Manager/Dev Ops engineer

ASSIGNMENT: System Manager/DevOps engineer for two development teams. Acting bridge between PO and dev team. Responsible for releases to production.

TECHNOLOGY/METHODOLOGY: .NET/C#, Octopus Deploy, Azure DevOps.

CUSTOMER BENEFIT: Prerequisites for the development teams to develop fast and reliable with a quality focus.

2018   **SKANDIA (CONSULTANT ASSIGNMENT)**

INDUSTRY: Insurance

ROLE: Environment "Hands-on" Architect/DevOps

ASSIGNMENT: Investigation and creation of environment strategy reaching over 3-5 years implementation. Establishment of the DevOps organization and the continuous flow between the distributed world and the mainframe world.

TECHNOLOGY/METHODOLOGY: .NET, JAVA, Mainframe, Progress, Octopus Deploy, TFS, MSSQL, DB2, CMDB, qualiware, SAFe.

CUSTOMER BENEFIT: Environment strategy vision and establishment of the shared services/system team function in the agile SAFe process. This is the foundation of the continuously software factory.

2017   **TACTON (CONSULTANT ASSIGNMENT)**

INDUSTRY: Technology

ROLE: Configuration Manager/Environment Coordinator/DevOps

ASSIGNMENT: Tacton delivers smart configuration solutions, of which Siemens-Healtineers is a program customer and globally will offer this product to the 6000 global users.

Primarily for the mission is to take over and continue as well as improve the outgoing CM for the program.

The work is to introduce "order" from the 7 agile fast delivery development teams + to manage conditions in terms of environments, data, governance, and release and deployment management (hands-on).

To build the Pre-Production and Production Amazon AWS environments.

The target environments are based exclusively on Amazon AWS infrastructure and the development environments are located on VMware. This entails challenges to transform supplies into a more "Amazon AWS service mindset". Much "infrastructure development" work is on getting supplies operational on Amazons AWS infrastructure.

To improve and implement development process into automated CI / CD pipelines.

Quality assurance is a and o in this role.

TECHNOLOGY/METHODOLOGY: Amazon AWS, PowerShell, Java, GIT, Maven, Jenkins, liquibase, CI, CD, DevOps, Test, Configuration Management, Deploy/Release Management.

CUSTOMER BENEFIT: Magnus helps to build processes and infrastructure to ensure and deliver deliveries. A large amount of agile improvement work is done within AWS / CI / CD and DevOps seen from a CM's eyes.

2016-2017   **BONNIER (CONSULTANT ASSIGNMENT)**

INDUSTRY: Publisher

ROLE: Test automation engineer/Test management

ASSIGNMENT: Magnus was responsible for implementing Test Automation Framework and creating automated tests for Type & Tell and Bonnier Companies, as well as helping to organize workflows for testing. Manual testing of new functionalities was included in the daily work. The assignment also means helping to define roles / functions for organizational anchoring of the test work. Magnus prepares and assists in delivery of Test Automation Framework to the test team.

TECHNOLOGY/METHODOLOGY: Microsoft Azure, Selenium, Java, Jira, Scrum, Continuous Integration/Continuous Delivery, Test Automation Framework.

CUSTOMER BENEFIT: Magnus contributes to a well-tested new product, Type & Tell, and the ability to quality assure new future products in a cost-effective manner.

2016-2015   **SEB**

INDUSTRY: Banking

ROLE: IT Innovator for visualization of the SEB IT systems

ASSIGNMENT: The goal for the project was to visualize the SEB Test Environments in an easy and cool interface. End users are the business and IT people. The challenge was to find the "red thread" from a vast numbers of applications, systems and data repositories and to make this data available over REST services.

The project rapidly grew into the needs of visualization for business flows, data models and data correlation between applications, system, people and repositories.

The project goal was also to be implemented in support for Continuously Integration and Continuously Delivery.

TECHNOLOGY/METHODOLOGY: The implementation stack contains NodeJS, (Micro services), NPM, Webpack, docker and Openshift as virtualization engine. The scrum team worked in a community-driven way using Trello and Slack.

CUSTOMER BENEFIT: All people in the SEB can easy search for an SEB system and its meta data using a Webb browser. The project will now continue and is evaluated against COTS product Mood.

2015-2014   **SEB**

INDUSTRY: Banking

ROLE: Teach lead/Developer for establishment of the services: Service Virtualization and Virtual Mobile testing lab.

ASSIGNMENT: Overall technical service establishment responsibilities. Implementation and installation of 3rd party products according to SEB IT regulations. Work close to line organization and customers in an agile way of working.

TECHNOLOGY/METHODOLOGY: Service Virtualization COTS product was delivered from Parasoft and installed into SEB linux systems.

The Virtual Mobile testing lab was using different virtualization techniques depending on underlaying OS e.g. VMware, VirtualBox, Multi-user macintosh servers etc. The service supports all available browsers published, all xCode simulators and most of the Android emulators (Genymotion).

CUSTOMER BENEFIT: All channels at the bank can now use Service Virtualization for a non-existing or existing system/service.

The Virtual Mobile lab can globally generate a specific OS or device with a numbers of browsers on the fly for test and development.

2014-2016   **SEB**

INDUSTRY: Banking

ROLE: Tech lead for building JAVA collaboration within the SEB Test area

ASSIGNMENT: The service based Test department in SEB is really not a traditional Test department. It is a development department. 5 large code bases (Test Data Factory, Test Automation Framework, Test Environment Verification Service, Performance Test and Service Virtualization) exist and have evolved during 7 years in a non-controlled manner.

The goal was to find the "red thread" and to have a common way-of-working including development environments, shared component (micro services) and to increase the quality.

TECHNOLOGY/METHODOLOGY: Common source code control using GIT was introduced to the teams. Continuously Integration using Jenkins and Maven/Gradle increased the time-to-market. A more component based architecture was introduced and the technical debt was reduced using SonarQube as code analysis tool.

CUSTOMER BENEFIT: The teams have now increased the quality to release shared components all over the bank. The development pipeline using Continuously Integration and Continuously Delivery is now a standard way of working.

2013   **SEB**

INDUSTRY: Banking

ROLE: JAVA developer for One Fund project

ASSIGNMENT: Develop fund services in JAVA from business requirements and to migrate old systems into new COTS product using Tieto TCM.

TECHNOLOGY/METHODOLOGY: J2EE in an IBM wrapped SDK. Develop Continuously Integration and Continuously Delivery for line organization.

CUSTOMER BENEFIT: Project is now in production using new COTS product and J2EE services. Old system is in the end of life cycle.

2010-2016   **SEB**

INDUSTRY: Banking

ROLE: Test Environment Specialist/DevOps

ASSIGNMENT: Establish common way-of-working with Test Environments using a service based approach.

- Test Environment governance and vision
- Responsible for Test Services Windows (maintenance).
- Monitoring Service in the Test Environments
- ITIL implementation
- Test Environments overview
- Time sharing
- Creating isolated Test Environments

TECHNOLOGY/METHODOLOGY: Working with people to change the mindset of Test

Environment governance takes time. It is a level of maturity and creating concrete services with the customer is the key. The other key pair is "control" as comes with the ITIL establishment.

CUSTOMER BENEFIT: Customer uses Test Environments services on a daily basis such as monitoring, impact analysis when maintenance, coexistent in the same Test environment, knowledge how to test the test object in a Test environment.

2009-2010   SBAB

INDUSTRY: Banking

ROLE: Test Environment Responsible

ASSIGNMENT: To ensure the business needs of Test and Development Environments. The assignment involved a lot of "hands-on" in order to create an acceptable baseline. Much effort was to create a pipeline to maintain the database code level and to create a "way-of-working" with the service desk people.

TECHNOLOGY/METHODOLOGY: JAVA, .NET, ORACLE, UNIX, AS400.

CUSTOMER BENEFIT: The pipeline for building Test and Development Environments was achieved by the Continuously Delivery process building the application and database layer on demand.

2005-2009   OTHER ASSIGNMENTS

- Sigma Emprove AB   2008-2009   Consultant – Front End developer for Webb agency in retail
- Tactel AB   2007-2008   Developer – Mobile App developer for Ericsson
- Insignia Solutions   2005-2006   Engineer for Telecom operators