Curriculum Vitae

Marco Pas

Version 1.0, June 6th, 2017

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Personal Details

Name

Marco Pas

WebSite / Social Media

- 🔗 http://mpas.github.io

- 𝕏 Twitter

- ⒤ GitHub

- **in** LinkedIn

- **f** Facebook

- 👥 Slideshare

- 🖥 Speakerdeck

Location

Rijsbergen, The Netherlands

> **Software geek, tech guy, wannabe cooking chef, likes to travel, meet new people, share knowledge, watch movies/series, beer enthusiast.**
>
> **Hands on Software/Cloud/Platform & DevOps Engineer.**
>
> **Believer in people, teams, lifelong learning and enjoying life!**

Professional experience

Software/Cloud/Platform & DevOps Engineer at Philips Lighting

 Oct 2013 to Now (ongoing)
 Philips Lighting
 Philips Lighting - Interact Office

Position

Software/Cloud/Platform & DevOps Engineer
Responsible for the design and implementation of the Cloud Platform Architecture and ensuring that implemented services are used for multiple product propositions

The platform is being used for multiple product proposition on which devices are connected using IOT/MQTT. Control and data collection via different channels.

- **Drive the implementation of the Cloud infrastructure** and services using Agile/Scrum/SAFe approach

- Organized various workshops to **create awareness on Cloud architectures and development approach**

- Implementation of a **Continuous Integration & Deployment environment**

  - Docker images are build using a Jenkins cluster and pushed to Amazon ECR Docker repositories (Stash → Jenkins → AWS ECR) using Jenkins Pipelines

- **Infrastructure as Code**

  - Creation of **Terraform** modules to enable **Continuous Deployment of the infrastructure and services**

- Implemented **Microservice architecture**

  - Deployment based on **Docker** Images using **AWS ECS Container Services**

  - Service interfaces are based on **REST and/or Amazon SQS/RabbitMQ AMQP** broker

  - Service contracts written using **Rest Application Markup Language (RAML)**

  - *"Service Discovery"* based on **Consul**

  - Service implementations using Java, SpringBoot, Grails, Scala

  - Introduced and implemented a *Unified Logging Layer* based on **Fluentd**

  - Infrastructure and service monitoring using **CloudWatch/Prometheus**

- **Internet Of Things** (IOT) implementation based on the **MQTT** protocol

Technologies used:
Docker, Java, Groovy, Scala, SpringBoot, Angular, Rest Application Markup Language (RAML),OpenAM, Gradle, Maven, Consul, NetFlix Eureka/Hystrix, Terraform, AWS Webservices (EC2/ECS/ECR/ELB,S3,CloudWatch,Elasticsearch,RDS), Grails, Spock, AMQP, RabbitMQ, REST, HMAC

security, Tomcat, Linux, Neo4J, Jira, Stash, Git, Confluence, Scrum, SAFe (Scaled Agile Framework), MQTT, HiveMQ, Prometheus, Fluentd, InfluxDB, Microservices

Provided platform functionality

- secured hardware device registration onto Cloud (during bootsequence)

- device firmware management

- providing common communication layer using MQTT/AMQP

- centralized identity management

- generic Microservice platform (discovery + continuous deployment)

- unified logging layer

- centralized monitoring of components

Software Engineer/Architect EV Solutions at IHomer

 Jun 2011 to Oct 2013
 IHomer
 Open Charge Alliance, E-Laad, Alfen

Position

Software Engineer - Architect
Responsible for design & implementation of a web-based platform to facilitate charging of electrical vehicles

- Collaborated with various **stakeholders and clients** to optimize the platform

- Member of the OCPP **steering committee** driving new protocol versions

- Serve as technical lead on the **AMQP/REST** based architecture

- Presenting across Europe on the OCPP protocol to get **external partners** involved in development of the protocol

- **Implementing** the design together with a team

- Proof of concept implementations for third parties implementing OCPP specifications

Methodologies & Technologies used:
Java, Groovy, Grails, Spring, Spock, Apache Axis, REST, JMeter, SoapUI, XML, XSLT, SOAP, AMQP, JSON, RabbitMQ, Nokia Maps, HMAC security, Tomcat, Linux, MySQL, Ansible, Agile

> *Provided platform functionality*
>
> - hardware status monitoring
>
> - self service capabilities for charging unit owners
>
> - executing firmware updates
>
> - registration of charging sessions
>
> - 3rd party data integration
>
> - event push notifications
>
> - a RESTful API to allow external system integration
>
> - protocol implementations for connecting charging units (OCPP)
>
> - web service connections to external service providers

Technical Lead/Software engineer at IHomer

 Jan 2009 to Jun 2011
 IHomer
 Belgian Distribution Service

Position

Technical Lead/Software Engineer
Restructure a Java/Web based ERP system and build the internal development organization

- Set-up the internal development team

- Implementation of distributed development environment and process (requirements, development, testing & deployment)

- Gathering functional & non-functional requirement

- Create agile awareness and implement SCRUM development methodology

Methodologies & Technologies used:
Java, JEE, Spring, Hibernate, Javascript, YUI, JBoss, JUnit, JMeter, UML, Jenkins

Software Engineer/Competence Lead at CMG/LogicaCMG/Logica

 Sept 1997 to Dec 2008
 CMG/LogicaCMG/Logica
 Shell, Unilever, GE, Kennisnet, KLM, NS, Aegon, PTT Post, Lyondell

Position

Software Engineer/Competence Lead/Innovation Architect

- **Competence Lead**

  ◦ Responsible for the professional/people development for a group of +/- 200 software engineers

- **Innovation Architect**

  ◦ Being part of the "Working Tomorrow" innovation incubator creating innovative concepts, technologies & methodologies. Responsible for the architecture, selection, progress and staffing

- **Software Engineer**

  ◦ Implementation of different mobile applications, infrastructures and technologies

  ◦ Mobile hardware selection for KLM for use in-flight

  ◦ Responsible for the design, development and the implementation of a number of applications for an intranet. Applications have been developed using Java on the NetDynamics application server

  ◦ Development of high traffic based website for Dutch Railways

  ◦ Trainer for IBM WebSphere J2EE platform. Introducing concepts such as object orientation, technical directives and design directives

  ◦ Implementation of a e-learning platform for Kennisnet using Open Source technologies

  ◦ First of a kind development of a mobile ticketing platform used by customers like Efteling, Madam Tussaud and Living Tomorrow. Winning the Dutch national ICT Award 2004.

Methodologies & Technologies used:
.Net Compact Framework, OpenNetCF, Java, iAnywhere SQL studio, IBM WebSphere Connection Manager (WECM), Eclipse, NetBeans, Java J2SE, Oracle, Web Services, UML, RUP, JUnit, Tomcat, J2EE, PostgreSQL, MMBase, Microsoft Pocket Pc, Windows Mobile, Appforge, J2ME, Java MIDP, BEA WebLogic, NetDynamics

IT Support at Jan de Rijk Logistics

📅 Nov 1995 to Sept 1997
👥 Jan de Rijk Logistics

Position

IT Support
Internal IT support Employee responsible for internal projects

- Selection and Implementation of company wide European network. (Wide Area Network)

- Implementation of a satellite Tracking & Tracing solution for vehicles

- Optimization of transportation and people planning

- Implementation of vehicle bound hour registration

Side Projects

NextBuild Conference

📅 May 2015 to Now (On going)
👥 NextBuild

Initiator and organizer of the **free** NextBuild Software Conference. The NextBuild Conference is intended for developers/architects who are passionate about software development and want to learn, meet and share. The conference runs every year and has roughly has **25+ speakers, 300+ attendees running in 4 parallel tracks**.

Technical Skills

Containers

Docker, Docker Compose, Docker Machine, Docker Swarm, AWS ECS

Webservices

SOAP, REST, Rest Application Markup Language(RAML), JSON, SoapUI, Postman, Microservices

Cloud

AWS, AWS EC2, AWS ECS, AWS ELB/ALB, AWS ElasticSearch, AWS Lambda, AWS Kibana, Terraform, CloudFormation, Fluentd, Prometheus, InfluxDB, Consul, NetFlix Eureka/Hystrix

Languages and Specifications

Java, Groovy, Go, Ruby, Elixir, Scala, JavaScript, AsciiDoc, HTML5, Markdown, Shell scripting, XML, CSS

Software Engineering

DevOps, ChatOps, Continuous Integration, Continuous Delivery, Unit Testing, Integration Testing

Application Servers

Apache Tomcat, Apache HTTP Web Server

Frameworks and Libraries

Grails, SpringBoot, Spring, Gorm

Databases

MySQL, PostgreSQL, Neo4J

OS

Linux, Mac OSX, Windows

Protocols

HTTP, WebSockets, REST, OCPP, AMQP, JMS, MQTT

Tools

IntelliJ, Eclipse, Maven, JIRA, STASH, Gradle, Git, Jenkins, Subversion, Asciidoctor, Jenkins, Sonar, Nexus, JMeter, OpenAM, HiveMQ

Methodologies

TDD, Agile/Scrum, SAFe (Scaled Agile Framework)

Conferences & Presentations

Gr8Conf, Copenhagen, May 2018

- **Rediculous easy centralized application logging & monitoring** - Session info
  - 📄 Slides @ **Speaker Deck**
  - </> Source code @ **Github**
- **The Internet Of Things and capturing Time Series Data** - Session info
  - 📄 Slides @ **Speaker Deck**
  - </> Source code @ **Github**

Gr8Conf, Copenhagen, May 2017

- **Infrastructure & System Monitoring using Prometheus** - Session info
  - 📄 Slides @ **Speaker Deck**
  - </> Source code @ **Github**
- **Collect distributed application logging using Fluentd (EFK stack)** - Session info
  - 📄 Slides @ **Speaker Deck**
  - </> Source code @ **Github**
- **Running your Dockerized application(s) on AWS EC2 Container Service** - Session info
  - 📄 Slides @ **Speaker Deck**
  - </> Source code @ **Github**

Devoxx UK, London, May 2017

- **Infrastructure & System Monitoring using Prometheus** - Session info
  - ▶ DevoxxUK @ **Youtube**
  - 📄 Slides @ **Speaker Deck**
  - </> Source code @ **Github**

Gr8Conf, Copenhagen, May 2013

- **Using Grails to power your Electric Car** - Session info
  - 📄 Slides @ **Speaker Deck**

Devnology, Nov 2010

- **Introduction to Groovy / Grails**

- 📄 Slides @ **Speaker Deck**

Education

Name	Year
AWS Certified Developer - Associate 2017	ongoing
AWS Certified SysOps Administrator - Associate 2017	ongoing
AWS Certified Solutions Architect	ongoing
AWS Certified DevOps Engineer - Professional	ongoing
Certified Scrum Master	2014
Dutch national ICT Award 2004	2004
Certified Java Developer	2001
Laboratory Information Automation (Bachelor Degree)	1997

Interests

- **Learning:** Always interested in learning new technologies & methodologies, currently looking at: Serverless Computing, Google Cloud/Kubernetes, Elixir, Golang and ChatOps

- **Travelling:** Like to experience new cultures, environments and meeting new people

- **Cooking:** Preparing, tasting and sharing food