Curriculum Vitae

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👤 Personal Details

Marco Pas

Happy coder, system architect, software geek, cloud believer, tech guy, open source enthusiasts, wannabe cooking chef, likes to travel, meet new people, share knowledge, and watch movies/series.

- **Hands on** Software/Cloud/Platform & DevOps Engineer
- Loves to attend international technology conferences as **speaker and participant**
- Always **actively learning new technologies & methodologies** and seeking **innovation**
- Happy to work in **multi cultural and global environment**
- **Likes to go abroad and travel** to meet with customers/colleagues
- **Result driven** with a strong **customer focus**
- Believer in **people, teams, lifelong learning** and enjoying life!

Contact

- ✉ E-mail: marco.pasopas@gmail.com
- 📞 Mobile Phone/WhatsApp: +31 6 18808521
- 🅢 Skype: marco.pasopas

Social Media

🔗 https://mpas.github.io	🐦 Twitter	⭘ GitHub
in LinkedIn	🖥 Speakerdeck	⭘ Instagram

📍 Location

- Rijsbergen, The Netherlands

Short Resume

⚙ Technical Skills

Techniques	
Techniques	- Serverless *(AWS Lambda)* - Microservices - Service Discovery *(Consul, Eureka)* - Monitoring *(Prometheus, Influx)* - Logging *(Cloudwatch, Fluentd)* - Container Orchestration *(Docker, AWS ECS)* - Infrastructure as Code *(Terraform)* - Internet Of Things *(MQTT, HiveMQ)* - Web Services *(SOAP, REST)* - Message Driven Architectures *(AMQP, JMS, RabbitMQ)* - Time Series Databases *(Prometheus, InfluxDB)* - Software Engineering Practices - Continuous Integration, Continuous Delivery - Unit Testing, Integration Testing - Secure Software Supply Chain *(Inspec, Goss)* - DevOps/ChatOps *(Immutable Builds, Builds as Code)* - Software Quality *(SonarQube, Tics)* - TDD, Agile/Scrum, SAFe (Scaled Agile Framework), Kanban
Tools	- Version Control Systems (Git, GitHub) - Continuous Integration Systems (GitLab, GitHub, Jenkins) - Databases *(MySQL, PostgreSQL, AWS RDS, Neo4J)*
Platforms	- AWS Cloud Platform *(EC2, ECS, ELB/ALB, VPC, IAM, Cognito, ElasticSearch, Cloud Gateway, Lambda, Kibana, RDS, Cloudwatch, Cloudformation)*
Language & Frameworks	- Java, Python, Groovy, Go, Ruby, Elixir, JavaScript - Spring *(Boot, Cloud, NetFlix Eureka/Hystrix)* - Infrastructure and Container Compliance *(InSpec, Goss)* - Grails/Micronaut - Markdown, AsciiDoc

📑 Work Experience

📅 Oct 2017	📅 Current	**Software Architect Cloud & Platforms - Philips Research**	**Philips**
Responsible for the design and implementation of various products *(based on Amazon AWS)*. *Evangelizing best practice software engineering principles* across the entire (global) organization.			
📅 Oct 2013	📅 Oct 2017	**Software Architect Cloud & Platforms - Interact Platform**	**Signify**
Responsible for the design and implementation of a *global Cloud based product platform (based on Amazon AWS)* (architecture and implementation). Ensuring that implemented polyglot microservices are used in *multiple product propositions*.			
📅 Dec 2008	📅 Oct 2013	**Software Engineer & Architect - EV Solutions**	**IHomer**
Responsible for design & implementation of a *global web-based platform to facilitate charging of electrical vehicles*.			
📅 Sept 1997	📅 Dec 2008	**Software Engineer/Competence Lead**	**CGI**
Implementation of different *mobile applications, infrastructures and technologies and professional/people development* for a group of +/- 200 software engineers.			
📅 Nov 1995	📅 Sept 1997	**Internal IT support**	**Jan de Rijk Logistics**
Implementation of internal projects, including *transport planning, vehicle track and trace*.			

Extended Resume

📄 Work Experience

▶ Software Architect Cloud & Platforms - Philips Research

📅 Oct 2017 to Now (ongoing)
👥 Philips

Position	**Software Architect Cloud & Platforms**
	Defining and implementing cloud (native) architectures for various products while ensuring organizational compliance for global research/product groups. Ensuring that code and deliverables are of high quality with security mitigation's.

- Creation of a customer platform to monitor conditions in ICU units by collecting data by ingestion into **time series databases** for later analysis. Driven by **AWS serverless** software modules.

- **Driving implementation of Amazon AWS Cloud infrastructure** and services across multiple Philips business units (across the globe)

- Introduced various **Software Quality** aspects including Software Security Supply Chain (from code to deliverable)

  - Introduced **application code security scanning** using Continuous Integration

  - Docker security **Container Scanning** as part of delivery pipelines

  - **Create and guide Software Project XRays** to enable project to improve in areas that are required

- Introduction of One Code Base

  - Guiding the migration of multiple Source Code Management systems into a single source of truth to ensure reuse across multiple business groups

Technologies used:
Serverless, Docker, Java, Python, JavaScript, Go, Groovy, SpringBoot, Terraform, SonarQube, AWS Webservices (EC2/ECS/ECR/ELB,S3,CloudWatch,Elasticsearch,RDS,API Gateway), Git, GitLab, GitHub, InSpec, Goss, Fluentd, InfluxDB, SAFe (Scaled Agile Framework)

▶ Software Architect Cloud & Platforms - Interact Platform

📅 Oct 2013 to Oct 2017

👥 Signify

❯ Platform: Interact Office IOT

Position	**Software Architect Cloud & Platforms**
	Responsible for the design and implementation of a global Cloud based product platform (architecture and implementation). Ensuring that implemented polyglot microservices are used in 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

📅 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

▶ Software Engineer/Competence Lead

📅 Sept 1997 to Dec 2008

👥 CGI

❯ Clients: 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

📅 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

▶ IT Support

📅 Nov 1995 to Sept 1997
👥 Jan de Rijk Logistics

🖥 Conferences & Presentations

Philips Software Conference, Bangalore/India, September 2019

- **Are you aware?? Compliance and Security Testing**
  - ◦ Internal conference: raising developer awareness around liability and ownership

Gr8Conf, Copenhagen, May 2019

- **Are you aware?? Compliance and Security Testing** - Session info
  - ◦ ▶ Gr8Conf @ **Youtube**
  - ◦ 🗎 Slides @ **Speaker Deck**
  - ◦ </> Source code @ **Github**

Gr8Conf, Copenhagen, May 2018

- **Ridiculous easy centralized application logging & monitoring** - Session info
  - ◦ ▶ Gr8Conf @ **Youtube**
  - ◦ 🗎 Slides @ **Speaker Deck**
  - ◦ </> Source code @ **Github**
- **The Internet Of Things and capturing Time Series Data** - Session info
  - ◦ ▶ Gr8Conf @ **Youtube**
  - ◦ 🗎 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
  - ◦ ▶ Gr8Conf @ **Youtube**
  - ◦ 🗎 Slides @ **Speaker Deck**
  - ◦ </> Source code @ **Github**
- **Running your Dockerized application(s) on AWS EC2 Container Service** - Session info
  - ◦ ▶ Gr8Conf @ **Youtube**
  - ◦ 🗎 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**

👥 Side Projects

NextBuild Conference

📅 May 2015 to Dec 2019
👥 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**.