

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
- System architect, able to **make complex problems simple**
- Loves to attend international technology conferences as **speaker and participant**
- Always **actively learning new technologies & methodologies** and seeking **innovation**
- Explaining **complex technologies in a simple and effective way**
- 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

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Social Media

 LinkedIn	 Twitter	 GitHub
 Speakerdeck	 Instagram	 https://mpas.github.io

📍 Location











- [Rijsbergen, The Netherlands](#)

Short Resume

🔌 Technical Skills

Techniques	<ul style="list-style-type: none">• Serverless (<i>AWS Lambda</i>)• Microservices<ul style="list-style-type: none">◦ Service Discovery (<i>Consul, Eureka, AWS Route53</i>)◦ Monitoring (<i>Prometheus, Influx, AWS CloudWatch</i>)◦ Logging (<i>Fluentd, AWS CloudWatch/Kibana</i>)• Container Orchestration (<i>Docker, AWS ECS</i>)• Infrastructure as Code (<i>Terraform</i>)• Infrastructure and Container Compliance (<i>InSpec, Goss</i>)• Web Services (<i>SOAP, REST</i>)• Internet Of Things (<i>MQTT, HiveMQ</i>)• Message Driven Architectures (<i>AMQP, JMS, RabbitMQ, AWS SQS</i>)• Time Series Databases (<i>Prometheus, InfluxDB</i>)• Software Engineering Practices<ul style="list-style-type: none">◦ Continuous Integration, Continuous Delivery, Unit Testing, Integration Testing• Secure Software Supply Chain (<i>SonarQube, InSpec, Goss, Clair</i>)• DevOps/ChatOps (<i>Immutable Builds, Builds as Code, Lita/Errbot</i>)• Software Quality (<i>SonarQube, Tics</i>)• TDD, Agile/Scrum, SAFe (Scaled Agile Framework), Kanban
Tools	<ul style="list-style-type: none">• Version Control Systems (<i>Git, Subversion</i>)• Continuous Integration Systems (<i>GitLab, GitHub, Jenkins</i>)• Databases (<i>MySQL, PostgreSQL, Neo4J, AWS RDS</i>)• Build tools (<i>Maven, Gradle, Ant</i>)
Platforms	<ul style="list-style-type: none">• AWS Cloud Platform<ul style="list-style-type: none">◦ (<i>EC2, ECS, ELB/ALB, VPC, IAM, Cognito, ElasticSearch, API Gateway, Lambda, Kibana, RDS, CloudWatch, SQS, CloudFormation</i>)
Language & Frameworks	<ul style="list-style-type: none">• Java, Python, Groovy, Go, Ruby, Elixir, JavaScript, HTML5, XML, CSS• Spring (<i>Boot, Cloud, Netflix Eureka/Hystrix</i>)• Grails/Micronaut

Work Experience

 Oct 2017	 Current	Software Architect Cloud & Platforms	Philips Research
Defining and implementing cloud (native) architectures (based on Amazon AWS) for various research projects & products while ensuring organizational compliance for global research/product groups. Ensuring that code and deliverables are of high quality with security mitigation's. <i>Evangelizing best practice software engineering principles</i> across the entire (global) organization.			
 Oct 2013	 Oct 2017	Software Architect Cloud & Platforms	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 at Philips Research

📅 Oct 2017 to Now (ongoing)

👤 Philips Research

Defining and implementing **cloud (native) architectures** for various **research projects & products** while **ensuring organizational compliance** for global research/product groups. Ensuring that code and deliverables are of high quality with security mitigation's. ***Evangelizing best practice software engineering principles*** across the entire (global) organization.

- Creation of a product for data ingestion and analysis that is able to monitor specific conditions on intensive care units. Collecting data and ingestion into **time series databases** for later analysis. Driven by **AWS Serverless** software modules.
 - Platform attention points (autoscaling, availability, performance (data throughput & replay), data storage, visualization)
- Working with **internal incubators**, prioritizing features and implementing these using cloud native technologies
- 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
 - **Created and guide Software Project XRays** across the entire organization. Enabling teams/projects to improve in areas that are required for meeting the quality standards that are set on corporate level

Provided platform functionality

- secured hardware device registration
- generic Microservice platform (discovery + continuous deployment)
- centralized identity management
- unified logging layer
- centralized monitoring and alerting on infrastructure and software components

Technologies used:

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

► Software Architect Cloud & Platforms at Signify

📅 Oct 2013 to Oct 2017

👤 Signify

🔗 Platform: [Interact Office IOT](#)

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.

- 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 using Jenkins Pipelines
- **Infrastructure as Code**
 - Creation of **Terraform** modules to enable **Continuous Deployment of the infrastructure and services**
- Implemented **REST based Microservice architecture**
 - Deployment based on **Docker** Images using **AWS ECS/ECR Container Services**
 - Message Driven Architecture using **Amazon SQS**
 - Service discovery based on **Consul**
 - 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

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

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

► Software Engineer & Architect EV Solutions at IHomer

📅 Jun 2011 to Oct 2013

👤 IHomer

🔗 Clients: [Open Charge Alliance](#), [E-Laad](#), [Alfen](#)

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

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

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

► Software Engineer & Competence Lead at CGI

📅 Sept 1997 to Dec 2008

👤 CGI

📍 Clients: Shell, Unilever, GE, Kennisnet, KLM, NS, Aegon, PTT Post, Lyondell

- **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.

- **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

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

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

🗨 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](#)

Education

Name	Year
Various programming and platform courses	2014-now
Certified Scrum Master	2014
Dutch national ICT Award 2004	2004
Certified Java Developer	2001
Laboratory Information & Automation (Bachelor Degree)	1997

Language Skills

Language	Level
Dutch	native language
English	fluent (reading, speaking, writing)
German	intermediate (reading)

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.**