

Marco Pas

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PERSONAL CHARACTERISTICS

Passionate **Software/Cloud/Platform & DevOps Engineer/Architect**, known for simplifying complex problems. Dedicated open-source advocate and lifelong learner, committed to staying at the forefront of technology. Skilled in communicating complicated concepts effectively and thriving in multicultural, global environments. Enjoys connecting with professionals at international tech conferences and values strong customer relationships.



Professional Highlights:

- **Software/Cloud/Platform & DevOps Engineer/Architect:** Proven hands-on experience in software development, cloud architecture, and DevOps practices.
- **System Architect:** Known for simplifying intricate problems, making complex systems accessible and efficient.
- **Tech Enthusiast:** Passionate about staying updated with emerging technologies and methodologies to drive innovation.
- **Effective Communicator:** Proficient in explaining complex technical concepts in a clear and understandable manner.
- **Global Collaborator:** Thrives in multicultural and global work environments, fostering productive relationships.
- **Customer-Focused:** Driven by results and committed to providing exceptional service, maintaining a strong customer focus.
- **Tech Community Engagement:** Actively participates in international technology conferences as both a speaker and participant.
- **Curious Explorer:** Enjoys traveling abroad to meet with customers and colleagues, embracing diverse perspectives.
- **Lifelong Learner:** Believes in the value of continuous learning and cherishing life's experiences.

SKILLS

- Teamwork/Collaboration
- Team Leadership
- Communication
- Problem-Solving
- Mentoring
- Presenting
- Software Development
- Software Quality
- Software Architecture
- Secure Software Supply Chain
- System Architecture
- Programming
- Open-Source Software
- Cloud Computing
- DevOps
- Continuous Integration/Continuous Deployment
- Back-End Development
- API Development
- Web Services
- TDD, Agile/Scrum, SAFe (Scaled Agile Framework), Kanban

EXPERIENCE OVERVIEW

10/2017 - present	Software Engineer/Architect Cloud & Platforms , Philips Research - Eindhoven Software Engineering Manager , Philips Research - Eindhoven (08/2020 - 09/2022)
10/2013 - 10/2017	Software Engineer/Architect Cloud & Platforms , Signify - Eindhoven
12/2008 - 10/2013	Software Engineer/Architect EV Solutions , IHomer - Etten-Leur
09/1997 - 12/2008	Software Engineer/Competence Lead , CGI - Rotterdam
10/1995 - 09/1997	Internal IT Support , Jan de Rijk Logistics - Roosendaal

TECHNICAL SKILLS

Techniques	<ul style="list-style-type: none">● Software Engineering Practices<ul style="list-style-type: none">○ Continuous Integration, Continuous Delivery, Unit Testing, Integration Testing● Software Quality (Assessments, SonarQube, CodeScene, Tics)● Secure Software Supply Chain (SonarQube, InSpec, Goss, Clair, Trivy)● Microservices<ul style="list-style-type: none">○ Service Discovery (Consul, Eureka, AWS Route53)○ Monitoring (Prometheus, InfluxDB, AWS CloudWatch)○ Logging (Fluentd, AWS CloudWatch/Kibana)● Container Orchestration (Kubernetes, Docker, AWS ECS)● Serverless (AWS Lambda)● Infrastructure as Code (Terraform, Helm)● Infrastructure and Container Compliance (InSpec, Goss, Trivy)● Web Services (SOAP, REST, gRPC)● Internet Of Things (MQTT, HiveMQ)● Message Driven Architectures (AMQP, JMS, RabbitMQ, AWS SQS)● Time Series Databases (Prometheus, InfluxDB)● DevOps/ChatOps (Immutable Builds, Builds as Code, Lita/Errbot)● TDD, Agile/Scrum, SAFe (Scaled Agile Framework), Kanban● GitOps (ArgoCd)● Immutable Operating Systems (Suse Linux Micro)
Tools	<ul style="list-style-type: none">● Version Control Systems (Git, Subversion)● Continuous Integration Systems (GitLab, GitHub, Jenkins)● Databases (MySQL, PostgreSQL, Neo4J, AWS RDS)● Build tools (Maven, Gradle, Ant, Poetry)● Helm, Rancher, Elemental
Platforms	<ul style="list-style-type: none">● AWS Cloud Platform<ul style="list-style-type: none">○ (EC2, ECS, ELB/ALB, VPC, IAM, Cognito, ElasticSearch, API Gateway, Lambda, Kibana, RDS, CloudWatch, SQS, CloudFormation)● Kubernetes (K8S/K3s, Helm, Rancher)
Languages & Frameworks	<ul style="list-style-type: none">● Java, Python, Groovy, Go, Ruby, Elixir, JavaScript, HTML5, XML, CSS● Spring (Boot, Cloud, Netflix Eureka/Hystrix)● Grails/Micronaut

EXPERIENCE

Philips Research - Eindhoven

(10/2017 - present)

Software Engineer/Architect Cloud & Platforms

(10/2017 - present)

Defined and implemented **cloud (native) architectures/solutions (based on Amazon AWS) for various research projects & products. Evangelized best practice software engineering principles** across the entire (global) organization. **Performed software quality assessments** across the entire global organization to raise overall quality awareness and drive improvements..

Executed projects

- Executed the deployment of a Kubernetes platform at the edge, encompassing workload deployment, edge node management, and monitoring functionalities. Achieved utilizing technologies such as K3S, Rancher, Elemental and ArgoCD.
- Guided a group of Data/AI scientists, mentoring them in the application of software engineering principles, encompassing aspects such as code quality, code security, and proficiency in tools like Python, PyTorch, AI, and GitHub Actions.
- Developed a solution for capturing and analyzing data with the capability to oversee particular conditions within intensive care units. This involves the collection and subsequent ingestion of data into time series databases for future analysis, all orchestrated through AWS Serverless software components.

Key focal areas for the platform include aspects like autoscaling, ensuring availability, optimizing performance with regard to data throughput and replay, managing data storage, and facilitating data visualization.

- Collaborated with internal incubators to identify and prioritize features, then implementing them through cloud-native technologies.
 - ◆ Introduced a range of software quality considerations, including software security throughout the supply chain, from code development to the final deliverable.
 - ◆ Implemented application code security scans within the continuous integration process.
 - ◆ Incorporated Docker security container scanning as an integral part of our delivery pipelines.
- Executed software quality project XRays throughout the entire organization, empowering teams and projects to enhance specific areas necessary for aligning with the corporate-level quality standards.

Software Engineering Manager

(08/2020 - 09/2022)

- Privileged to have the opportunity to support a team of 25 skilled engineers in their professional development by setting team goals, conducting one-on-one meetings, overseeing daily operations, motivating team members, identifying training needs, providing coaching, and fostering creativity and a culture of risk-taking.

Technologies used

Kubernetes, K3S, Rancher, Docker, Java, Python, JavaScript, Go, Groovy, SpringBoot, Terraform, SonarQube, Serverless, AWS Web Services (Lambda, EC2/ECS/ECR/ELB, S3, CloudWatch, Elasticsearch, RDS, IAM, API Gateway, Kibana), Git, GitLab, GitHub, GitHub Actions, InSpec, Goss, Trivy, InfluxDB, SAFe (Scaled Agile Framework)

Software Engineer/Architect Cloud & Platforms, Signify - Eindhoven
(10/2013 - 10/2017)

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

Technologies used

Docker, Java, Groovy, Scala, SpringBoot, Angular, Rest Application Markup Language (RAML), OpenAM, Gradle, Maven, Consul, Netflix Eureka/Hystrix, Terraform, AWS Web Services (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

OTHER EXPERIENCE

Software Engineer/Architect EV Solutions, IHomer - Eindhoven
(Dec/2008 - Oct/2013)

Responsible for design & implementation of a global web-based platform to facilitate charging of electric vehicles. (Groovy/Grails, OCCP protocol)

Software Engineer/Competence Lead, CGI - Rotterdam
(Sept/1997 - Dec/2008)

Implementation of different mobile applications, infrastructures and technologies and professional/people development for a group of +/- 200 software engineers.

Internal IT Support, Jan de Rijk Logistics - Roosendaal
(Nov/1995 - Sept/1997)

Implementation of internal projects, including transport planning, vehicle track and trace.

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	Elementary (reading, speaking)

SIDE PROJECTS

05/2015 - 12/2019

NextBuild Conference, Philips Research - Eindhoven

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 roughly has **25+ speakers, 300+ attendees running in 4 parallel tracks.**

CONFERENCES & PRESENTATIONS

Most of the presentations can be found on YouTube or on Slideshare!

2019

- Are you aware?? Compliance and Security Testing
Internal conference: raising developer awareness around liability and ownership
- Are you aware?? Compliance and Security Testing
Gr8Conf, Copenhagen, May 2019

2018

- Ridiculous easy centralized application logging & monitoring
Gr8Conf, Copenhagen, May 2018
- The Internet Of Things and capturing Time Series Data
Gr8Conf, Copenhagen, May 2018

2017

- Infrastructure & System Monitoring using Prometheus
Gr8Conf, Copenhagen, May 2017
- Collect distributed application logging using Fluentd (EFK stack)
Gr8Conf, Copenhagen, May 2017
- Running your Dockerized application(s) on AWS EC2 Container Service
Gr8Conf, Copenhagen, May 2017
- Infrastructure & System Monitoring using Prometheus
Devoxx UK, London, May 2017

2013

- Using Grails to power your Electric Car
Gr8Conf, Copenhagen, May 2013

2010

- Introduction to Groovy / Grails
Devnology, Nov 2010