

Martin Ricken

Nationality: Danish
YOB: 1983
Languages: Danish (Native), English (Fluent)
Roler: Software Architect – Senior Developer - Lead Developer

Consultant Profile

I am a solution oriented developer who has worked with many frameworks and languages. I can be said to be an expert in PHP and Python 3, but also has experience with Javascript, C++, and Java. When talking about frameworks, I've worked a lot with Django and Flask (Python 3) as well as Laravel, Symfony and Drupal (PHP).

I started working as a developer in 1999, by working on personal websites for friends and family using HTML/CSS and Javascript. During my education I worked as a freelancer on the side, and quickly developed a taste for different server-side languages. It nourished my need to create when i worked with clients, and while the projects were small the satisfaction of completing projects and solving previously unsolvable problems was a great joy.

I have great respect for order, and the elegance of simplicity. When designing solutions, I try my best to solve simple problems with simple solutions, because I believe the more complex a solution becomes, the less likely it is to survive for very long. When I became aware of microservices I saw the possibilities immediately, but I also recognize the challenge this amount of flexibility can pose if you design a service too large. The flexibility and possibilities increased further with the addition of containerized environments, and - more recently - serverless solutions.

Core competencies:

- PHP 5.x-7.x
- Python 3.x
- Laravel 5.x, 6.x
- Drupal 6,7,8,9
- Microservices
- Symfony 4.x, 5.x
- Serverless
- AWS
- Docker (containers)
- Design Patterns
- Solution design (UML)
- Information architecture.
- Team Lead
- Agile (Scrum, Kanban)

Experience

Highlighted experience

2020-2021	Client	FFW Agency, Copenhagen, Denmark
	Role	Lead developer / Software Architect
	Project	The project was for the agency's end clients, the municipality of Copenhagen's. A tender for building a new main website, and intranet had been won by FFW, and they required some assistance with solution design, and problem solving on the project. Among other things the municipality's public meeting minutes, and the jobs listings had to be improved and made searchable on the website. My role was a dual one as both lead developer, and software architect for both the new main website (kk.dk) and the new common intranet.
	Technologies	PHP7, Drupal 9, MSSQL, Composer, Docker, Azure, jQuery, REST
	Methods	Design patterns, Solution Architecture, Auth0, Agile (SCRUM),

2020	Client	Egmont Publishing, Copenhagen, Denmark
	Role	Senior Developer
	Project	The project was to help with completion of a new internal platform for organisation of B2B purchases. The project had already been under development for 9 months, and was in the final phase. There were three key areas where assistance was required; Migration, Validation of solution architecture, and Performance optimisation. In connection with these tasks OWASP compliance, deployment and hosting was also covered.
	Technologies	PHP7, Laravel 6, MSSQL, Composer, Docker
	Methods	Design patterns, Solution Architecture, Auth0, Agile (SCRUM), OWASP.

2018-2019	Client	Obviux (Ørsted), Frederiksberg, Denmark
	Role	Senior Developer
	Project	The project was a fairly advanced billing engine, built to take care of processing all energy bills for clients of Ørsted. On the project I worked on an expansion to the API, as well as bug fixes to the engine itself. It was built on Laravel with a CI solution dealing with unit testing and monitoring. Towards the end of the project I created a serverless application in python, for handling API calls from the phone app, which was under development. I also participated in discussions about the IT infrastructure, as well as the general landscape of future API solutions using serverless.
	Technologies	PHP7, Python3, Laravel, Flask, MySQL, AWS Serverless, AWS: SNS – EC2 – SQS – IAM – RDS, JWT, Composer, Docker
	Methods	Design patterns, Scrum, Solution Architecture, Auth0, Microservices, Agile(SCRUM, Kanban), Unit testing.

2018	Client	Unity Technologies, Copenhagen, Denmark
	Role	Senior Developer
	Project	The project was maintenance and development of misc. small and big websites in the Unity landscape. During the project it became clear that GDPR Compliance was an issue, and I was tasked with aligning this. We ended up making a solution, which allowed people to submit information or delete requests through the website. Other departments of unity would integrate with service, to receive the requests.
	Technologies	PHP 7, Drupal 8, Redis, MySQL, HTML, CSS, Angular, Git.
	Methods	Solution Design, GDPR, debugging, Microservices, Agile (Kanban)

2017	Client	YouSee, Copenhagen
	Role	Senior Developer
	Project	<p>The project was with the middleware department of YouSee, and the main task was working on the transformation of their aging streaming middleware platform. The goal was to replace the entire platform with a number of microservices, in order to achieve all of the payoffs from doing so.</p> <ul style="list-style-type: none"> ● Leading role in implementation of new asynchronous microservices, and architecture. ● Leading role in design and implementation of new security initiatives, using ideas like “security by design” and “least possible surface”. ● Developed 6 microservices with responsibilities such as login/auth, cloud recording, bookmarking/Favorites. ● Key role in development of microservice for interfacing with the YouSee cloud TV device. ● Developed integration, load, and performance testing tools.
	Technologies	PHP7, Laravel, MySQL, Composer, Redis, REST, JWT, Python3, Flask
	Methods	Solution design, Security by Design, Auth0, Design Patterns, Microservices. Agile (SCRUM, Kanban), Unit testing.

Other experience

2019	Client	Maersk Drilling A/S, Copenhagen
	Role	Senior Developer
	Projekt	The project was cleaning up a POC of a machine learning application, which, based on sensor data, was supposed to be able to help predicting maintenance. Beyond this, the application was to be moved to an Azure hosting environment, and grab data from a data lake integration. In cooperation with the data analytics employee, we decided to rework the application from the bottom up using SOLID principles and established design patterns. The decision was reached to improve maintenance and scalability of the application.
	Technologies	Python 3, Azure Functions, MSSQL, Azure Data Lake, Kusto Data Explorer (Azure), Docker, Git, Azure Pipelines, Azure Devops
	Methods	Design patterns, Scrum, Devops, Agile (SCRUM), Unit testing.

2019	Client	Municipality of Copenhagen, Copenhagen
	Role	Senior Developer
	Projekt	The project was to assist an on-site development team create a new internal tool, for calculating maternity- and paternity refunds to various departments of the Municipality. The system had to comply with existing and new rules, as well as local rules on the subject. A focus was to integrate this system with systems in charge of payouts, located with an IT vendor to the municipality. Another one was to make the system more flexible than the current one, to allow for faster turn around on legal changes.
	Technologies	PHP7, SlimFramework, Docker, MSSQL, Git
	Methods	Solution Design, Determination of requirements, Design Patterns, Agile (SCRUM)

2019	Client	GLS Kolding, Kolding, Denmark
	Role	Senior Developer
	Projekt	This was a short term project, with the simple goal of replacing an older elastic search, and migration of data. Once this was complete, a significant performance boost was achieved with some simple changes to how the applications queried the system. Once this was complete, a short education process on new features was also completed.
	Technologies	Elasticsearch, Git, Docker, Windows Server 2016
	Methods	Debugging, Education

2019	Client	1001biler.dk, Copenhagen
	Role	Lead Udvikler
	Projekt	The project was a full implementation of a new site, and integration to a 3rd party car sales database and calculation algorithm. The goal of the project was to provide a new, and cheaper way of leasing luxury cars.
	Technologies	PHP7, Laravel, MySQL, AWS: EC2, IAM, JWT, Composer, Docker, VueJS
	Methods	Solution Design, Determination of requirements, Devops, Design Patterns.

2016	Client	Linkfactory A/S, Copenhagen
	Role	Lead developer / Software Architect
	Projekt	<p>The project was not sharply defined, as the client needed help on a number of tasks, because of a lack of resources and experience. Midway through the assignment a project focusing on IT security using geo location became the sole focus.</p> <ul style="list-style-type: none"> • Maintenance of Silex og Symfony OOP API'er for mobile integration. • Built performance oriented REST API, using a new caching approach. • Lead developer on 3 larger projects, and software architect on 5 other projects. • Sparring with developers, to find good solutions to their projects.

		<ul style="list-style-type: none"> • Mentor to new developers.
	Technologies	PHP7, Drupal 7-8, SOAP, REST, ApacheSolr, Memcached, Redis, Symfony 3, Silex, Elasticsearch
	Methods	Caching, Solution Design, Determination of requirements,, Devops, Design Patterns, Security by Design, Information architecture,, Performance optimization, Agile (SCRUM, Kanban), Unit testing.

2015		
	Client	TV2, Odense, Denmark
	Role	DevOps
	Projekt	<p>The project was to replace a devops engineer while a permanent replacement could be found. The tasks included:</p> <ul style="list-style-type: none"> • Primary contact for the development team. • Create POC on the use of SkyDock and SkyDNS, two container orchestration systems. • Lead discussions on HTTP2 with the devops team to share information. • Security review of current server infrastructure, which led to the decommissioning of 4 servers beyond saving. • Demonstration of a pentest, which showed how full access to some vulnerable servers could be achieved.
	Technologies	Docker (Skydock), CentOS7, ELK Stack, HTTP2
	Methods	Security review, Risk assesment, System hardening, Pen Testing, DevOps, Agile (Kanban)

2015		
	Client	Medical company, Remote
	Role	Lead Developer
	Projekt	<p>Due to a very strict NDA, the project can only be described in broad terms. The main tasks included:</p> <ul style="list-style-type: none"> • Development of REST API's • Integration with Elasticsearch • Data anonymisation processes. • Setup of hosting and CI with docker containers.
	Technologies	Silex, Elasticsearch, PHP7, REST, CentOS, Docker, Redis, Capistrano, Jenkins
Methods	Solution design, Security by Design, Auth0, Design Patterns, Microservices, Agile (Kanban), Unit testing.	

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2014-2015	Client	Adapt A/S, Copenhagen
	Role	Developer
	Projekt	<p>The project was not clearly defined, as the client simply needed resources on their development team. Tasks included:</p> <ul style="list-style-type: none"> • Development for clients such as Sportmaster, ATP and other clients. • Started a systems architect forum, for discussion of cross project solutions to increase productivity and reduce maintenance time. • Assist with determining requirements for mobile solutions created by Adapt Mobile.
	Technologies	Symfony 2, PHP5, Drupal 7, MySQL, Memcached, Varnish, Redis
	Methods	Solution Design, Security by Design, Information architecture, Design Patterns, Agile (SCRUM, Kanban)

2014	Client	Linkfactory A/S, Copenhagen
	Role	Lead Developer / Software Architect.
	Projekt	<p>The project was supposed to be part time support to a team working on the danish business administrations new website, but only a short while into the project it became clear they needed a more experienced developer than they had available, to act as lead on the project, so this became a full time project. Time spent on the project was divided into a 50/50 split between information architecture design, and development on the project.</p> <ul style="list-style-type: none"> • Made fundamental architecture changes to the platform, to better accommodate client needs. • Designed information architecture in cooperation with various area leads, inside the business administration. • Design and implementation of the login solution, to allow high performance even for logged in users. • Implementation of agile and quality assurance processes with Linkfactory.
	Technologies	ApacheSolr, REST, PHP5, Drupal 7, Grails, NemID, MySQL, memcached.
	Methods	Solution Design, Security by Design, information architecture, Design Patterns, Agile (SCRUM), Unit testing.

2012-2013	Client	Aller Media, Copenhagen
	Role	Lead developer / Software Architect
	Projekt	<p>The project was to help Aller Media create a new web platform for their entire portfolio of websites, using Drupal 7. During this process it was also the goal to train the internal developers in Drupal, and have discussions with the organisation to determine needs and requirements. Tasks included:</p> <ul style="list-style-type: none"> • Discussions with stakeholders about requirement, common ground, and recommendations, technical and otherwise, throughout the project. • Designed virtual hosting environments in cooperation with operations, and was a sparring partner to them during the transition. • Developed custom caching solution and database performance optimizations as per requirements set forth by the client. • Designed and proposed a common information architecture, which allowed for the sharing of content across the entire portfolio of websites. • Developed multiple custom solutions to allow editors layout access to their sites and content.
	Technologies	PHP5, Drupal 7, MySQL, Memcached, Varnish, Redis, Capistrano, ApacheSolr, Jenkins.
	Methods	Solution design, Information architecture, Design Patterns, Agile (SCRUM), Unit testing.

1 Courses and certifications

2019-2021 Amazon Web services Cloud Practitioner

2 Education

2002-2007 Datafagtekniker (Datatechnician), TEC Ballerup

3 Competencies

Competency	Last Used	Level	Years of experience
Python 3	2020	4	5
PHP	2021	5	13
Microservices	2020	5	5
Memcached	2017	4	5
Linux (Ubuntu)	2021	5	7
Linux (CentOS)	2018	3	3
Laravel 5 (and Lumen)	2020	4	4
Symfony 2&3 (and Slim)	2019	4	5
Redis	2019	5	5
Flask Framework (Python3)	2020	4	4
Amazon SNS, Serverless, RDS	2020	4	5
MySQL	2019	5	11
MSSQL Server	2020	3	3
Drupal	2021	5	10
ReactJS/Vue.js	2020	4	3
Bootstrap 3/4	2021	4	6
Skeleton	2017	3	2
React	2018	3	2

Level:

5:Expert, 4: Very experienced, 3: Experienced,
2: Some experience, 1: Knowledgeable