

# CV: Mikkel Mikjær Christensen

## Resumé

I was born the 17th of may 1983 and have been working professionally with IT since 2004, i have an AP Degree in Marketing and Management and a Bachelors Degree in Innovation and Entrepreneurship and handfull of courses at masterlevel in management.

Within IT i am self-tought, even though i spent a combined three years studying computer-science i never graduated, because i ended up working instead.

In general i am a very well wersed software developer and operations engieneer, i have been, building and working with very advanced Linux based production environments for decades now. Both within the e-commerce, research, banking and hosting industry.



## Erhvervserfaring

### 2022 – 2024 Site Reliability Engineer, DK Hostmaster A/S

DK Hostmaster is the sole operator of the danish top level domain name ".DK", i was part of the operationsteam which where responisble for the technical part of keeping the infrastureture runing, my main responsibilities where optimization of our Ansible based infrastructure, re-writing roles for updating large numbers of server, re-designing our entire load-balancer setup and finally troubleshooting and/or reverse engineering of a huge Ansible-based automation installation.

I was choosen for this job due to my heavy Linux experience and many years of experience in maintaining authoritative DNS Servers.

Technologies: Linux, FreeBSD, Ansible, Python, Gitlab, Bind, HAProxy, RabbitMQ, Keepalived, Oracle, Microsoft Cloud / Azure, C#/.NET, Nagios, Prometheus, Grafana, Backup and Disaster Recovery Strategy Planning.

### 2020 – 2022 Senior developper and infrastructure engineer, CDK ApS

Center Denmark ApS is a non-profit company which is founded by a large consortium of danish energy production companies, and our mission is to collect and distribute data about energy production and consumption in Denmark.

I was headhunted for this position, and i was met with a large number of systems that without any sense of global structure, built by a bunch of student-workers, with no sense of global direction, security or achitecture, i spent several month sorting that out and establishing a secure and robust baseline.

Herefter i headed the development of several large internal projects and i managed one large international research- and development project.

Technologies: Linux, Python, PHP, Bash, Json, OpenLDAP, Apache Hadoop, MQTT, OPC-UA

## 2019 – 2020 Software Architect at Finn Frogne A/S

Finn Frogne are the largest manufacturer of hard- and software for the mobility industry in North Europe, with roots all the way back to the late 70s.

My first assignment was to implement the TOGAF standard in the organisation, followed by a large project where i reverse engineered and documented the securitymodel, application programming interfaces and finally i redesignes those to conform to modern standards and best practices.

Finally i was appointed a coordinating role of the architect team, which in effect was an unofficial team-lead position, i assigned the projects to the individual architects and coordinated followup and feedback while i was the main contact point of the team towards the rest of the company andff external partners.

Teknologies: Linux, Python, PHP, Bash, Json, Rest, GraphQL, Postgresql, Togaf, Git, Phabricator, Centos, Jira.

## 2004-2024 Mikjaer Consulting ApS.

In my own consulting business i have been solving many different assignments for customers of varying sizes, a non exhaustive list below:

- Uptours.eu - Travel agency
- Siope.eu - european society for Paediatric Oncology
- Tv3 - Danish Television, we made an online game for the populair reality show **Paradise hotel**
- Thisted Andelskasse, Bank
- Folkesparekassen, Bank
- IFKA, Analysis Institut
- Danmarks.net, Marketing Company

- Cohaesio.net, Hosting Company
- Thyfisk.dk, Webshop selling fsh online
- Budosport, Webshop selling martialarts supplys

Technologies: We used several technologies among else Linux, FreeBSD, VMWare, Nagios, BackupPC, PHP, MySQL, Apache, Bind.

## 2016-2024 Software Arkitekt ved Novicom A/S

**Novicom A/S** provide a complete **digital signage solution** for customers worldwide. A key-piece of this solution is a small **embedded platform running a Linux distribution which I have designed** on basis of Ubuntu 20.04 LTS.

Besides from designing the system I also made a **build-environment** that creates the systems from a plain Ubuntu 20.04 LTS image into a final solution that can be transferede onto a solid state drive and install directly in the hardware before it gets shippet out to the customers, this includes .

The system contains features such as **Network and Wifi management**, Remote administration and support, display and audio hardware management, automaticly download, start and display of content from a central server, webinterface accesible from noth the physical display and remote through a webbrowser, and finally the entire system can be **upgraded remotely without any kind of user-interaction..**

Technologies: Linux, Python, PHP, Bash, MySQL, XOrg, Ansible, KVM/QEMU, Virtualbox, SystemD, Grub, Netplan, WPA Applicant, Wifi, Networking, Over the air updates.

## 2014 – 2024 Software developer and infrastructure specialist at RentalTrax ApS

is a Danish company providing software for rental companies worldwide, I have been in charge of deploying a load-balancer and implementing backup on the servers of the company.

I have also been developping different integrations and API solutions during the last year, among others I designed and implemented their entire client API.

Projects I did for RentalTrax:

- Load Balancer
- Client Rest API
- Letsencrypt Integration
- TrippleTex / Billy Integration
- WooCommerce Wordpress Plugin

Technologies: Linux, Ansible, HAProxy, Nginx, Backuppc, Rsync, SSH, Wordpress, REST.

## **2018 Software developer and performance optimization InterGastro A/S**

is a company selling industrial kitchenware to restaurants and cafes across the country, I did all the technical configuration of a business to business webshop, which made sure that the restaurant-rep could only order spareparts that fits their current equipment.

Technologies: Linux, Wordpress, MySQL, MySQL Profiler

## **2018 LincoFood A/S / Baarder Group A/S**

is a Danish company who produces equipment and software for poultry processing plants, they have developed a large training platform using Wordpress as one of its main components.

I've helped design and maintain their hosting environment and to optimize and secure the platform itself.

Technologies: Linux, Rsync, Wordpress, MySQL, MySQL Profiler

## **2017 – 2019 DLX A/S**

is a danish hosting company for which I have been doing hosting automation, dnssec support for their dns servers and other assignments alike.

Technologies: Bind, PHP, FreeBSD, MySQL

## **2016 Sol.dk / CM Consult A/S**

as an external consultant I helped optimizing their hosting-platform, and I provided valuable advise regarding a soon to come upgrade of their entire code-base and hosting platform.

Technologies: Linux, HAProxy, Pound Load Balancer, NFS Kernel server, Citrix Xenserver, SSH Tunneling, Apache2, Drupal, Mysql.

## **2015 Mermaid A/S**

a company doing digital signage for the comute industry, I had to take over from an engineer who left the company with short notice.

My primary task was developing a realtime positioning system driver for one of the companys

bigger clients, Movia A/S, which is the primary provider of public transportation in the Capital area.

Technologies: Embedded Linux, Grub, Xorg, Ubuntu, Git, GPS, GSM, Hardware, Assembly, C#, PHP, Digital Signage,

## **2015 – 2014 McDonalds Denmark**

as an external consultant with McDonalds Denmark I was the lead developer behind their new Country-Wide intranet, used for training, human resourced and quality control.

The solution was developed as a Linux, PHP and MySQL solution on top of Wordpress with a lot of custom code and third party plugins to fit our purpose. The solution received great feedback from upper-local management.

## **2014 NovoZymes A/S**

as an external consultant I was appointed to reverse engineer a database and statistics system. The data contained several 100 gigabytes of research results, that had been gathered over the past 10 years. My job was to document the systems, since knowledge of the system had been lost over time, and to upgrade it to modern standards. The system was build with classic PHP4 and MySQL.

## **2014 - 2015 KK Electronics**

I was hired as a consultant to develop and implement monitoring and alerting on the companies worldwide IT Infrastructure on a lot of different devices ranging from printers and routers to windmills and international fiber-connections. The implemented solution facilitated Linux, Debian, Ubuntu, Nagios, PHP, Python, Visual Basic, Gnokii, MsSQL, Excel, Windows Active Directory, VMWare and redundant Hardware SMS modems.

## **2013 – 2015 CityWify**

I had the responsibility for building the network of this danish Internet Service Provider who provided wifi connectivity in exchange for permission to show advertisements on the users device.

I worked with both routing, network infrastructure, add injections, logging, captive web portal and deployment routines. We used technologies such as squid, Varnish, ISC Dhcp, PHP5 and Python.

## **2012 – 2014 Base1**

is the largest Real Estate Agent in Copenhagen, we changed the backend from a custom made ASP Classic solution with an access database to a PHP, MySQL and Wordpress based backend, combined with a custom made PHP system for receiving estate postings and displaying them, the system had several different integrations danish realtor systems.

## 2012 – 2013 Clio Online ApS

for Clio we made a geo-redundant hosting-cluster to handle the daily load from 100.000 concurrent users from all danish ground schools all across the country.

We used the following for the cluster:

- Round Robin DNS
- Several physical servers.
- 2 independent data centers (DIX Lyngby, InterXion Ballerup)
- Redundant fiber-based network
- Several redundant 1000mbit/s connections.
- Galera MySQL Cluster
- GlusterFS redundant network flesystem
- Ganglia Cluster Monitor in combination with Munin og Nagios.

We outperformed the earlier platform with a factor 5, despite of fewer servers and cheaper monthly fees, and the former supplier was one of the largest danish Typo3 consulting companies.

## 2011-2016 City Call Center drift and Booking

we made a booking portal <http://www.mipany.dk> which handled the booking process for their shared meeting room in the shared office space, besides from that we had the responsibility for the SMS server which their call-center used to inform clients of meetings. We used Wordpress, PHP, Linux and MySQL.

## 2009-2010 Systems administrator at ComX

System administrator with the local Internet Service Provider **ComX** which was the first danish ISP to provide fiber-to-home. My assignments were monitoring and error handling on Routers, Switches, Asterix, voip, iptv and analog television.

## 2008-2009 Lead Developer at Papeer International ApS

as Lead Developer with Papeer I worked primarily with the company database solution that at the time had 50 Gigabytes of data, and over the first year it grew to about 100 Gigabytes. Besides of that I had the responsibility of the Ukrainian department of developers which we hired to support our danish department. Primary responsibility was surrounded by PHP Development and Linux Administration.

## **2008 Surftown A/S,**

we made the web-part of an online backup service. Payment, recurrent billing, globalization, languages, vat and taxes and integration with backend-systems and the actual backup service.

## **Education**

### **2016-2019 Bachelors Degree in Innovation and Management**

I wrote my bachelor project about IT Innovation with a case study about a specific IT Security product, i got experience in featuring and manage innovationprocesses in small to medium sized teams, and finally we managed to land a second place in a local innovation-kompetition, and our project ended up being relised.

### **2012-2015 Diplomo in Management**

I completed the courses "Professional Leadership" modul 1 og 2 and "Management and Managing coworkers" modul 1 og 2.

### **2005-2008 Academy Programme Degree in Marketing and Management**

Specialisation in E-Business where i got top grade (12) and my final project, about modern management in IT Business landed the second highest grade (10).

### **2004-2005 Computer Science at the Danish Institute for Computer Science at Copenhagen University.**

### **2002-2004 HF High School**

Received top grades with honours in my final written examn about computer science and IT Security, my final GPA was 9,1 (old danish scale).

## **IT Competences**

General competences at expert level: Software Architechture, IT Security, Project management, demands analysis, Network and systemsadministration, software development.

Technologies at expert level: WordPress development (integrations and plugins), Linux, OsX, PFSense, FreeNAS, SSH / Secure Shell, Nagios, Incinga, Ganglia, Munin, Logstash, Elasticsearch, Kibana, Ansible, MySQL, PHP, Python, Linux, Bind, Nginx, Linux KVM, Linux Containers (lxc / lxd), XenServer, Proxmox, Smokeping, Bash, Perl,

## **Languages**

Dansk: Fluent written and speech.

English: Professional written and speech.

Svensk: Able to understand written.

German: Able to understand written

## **Personal**

I live in Copenhagen since i moved here in 2004, most of my family have since moved here as well, but Christmas and New-years are still celebrated at the old family farmhouse in Jutland where my parents still lives.

I like to walk in the natur and take pictures, i like food, both cooking and going out to interesting restaurants.

I have a passion for Danish IT History and am currently active in the Socieity for Danish Computer History, and are currently working on a book about this subject.