

Claus Lensbøl

SOFTWARE ENGINEER · TELECOMMUNICATION

Jagtvej 101, 5.th, 2200 København N, Denmark

✉ cmol@cmol.dk | 🌐 www.cmol.dk | 📷 cmol | 📺 lensboel

Summary

Collaborative engineer with a flair for all things internet and their implementations. A strong background in Linux and experience working with digital communication in various ways. Interests lie in complex networks, mobile communication, realtime network synchronisation, software development, OpenSource, network protocols, multicast networking, and data mining. Good theoretical background, but not afraid of practical work. Works great independently as well as in teams. Social and outgoing.

Skills

Programming	Ruby, Python, C, C++, Java, Bash, Perl, Socket programming, REST, SQL
Code management	Git, Gitlab/Github, Jenkins, Jira, Crucible
DevOps	Docker, Vagrant, Ansible, Puppet
Frameworks/SDK	Ruby On Rails, Android, Sinatra, Flask
Languages	Danish, English
Other	In-depth network protocol knowledge, mobile networks and backhaul, Advanced Linux administration, CCNA, CCNP

Experience

Zeuxion ApS

Værløse, Denmark

SOFTWARE AND FPGA DESIGN ENGINEER

Sep. 2018 - current

- *Software consultant work for third party companies, internal education and DevOps.*
- Developing C++ applications for high speed network testers running on an embedded ARM Linux platform. This work is done in the customers large C++ codebase, and in close collaboration with their agile teams. I have introduced several successful features to help porting applications between platforms, making the product portfolio larger and encouraging code reuse, while also easing the introduction of new features.
- Team lead for internal Python project using REST APIs for gathering real time information from network equipment.
- Starting and running a successful series of internal education sessions for improving technical and collaborative skills of co-workers.
- Reworking internal IT infrastructure to ease deployment of new services and to align user experience across all work environments.

Fab:IT ApS

Copenhagen, Denmark

LINUX DEVOPS AND SYSTEM ADMINISTRATOR.

Aug. 2013 - Jun. 2018

- *Managing networks, virtualization, storage and Linux/BSD environments.*
- Running, maintaining and upgrading a high performance DNS cluster as well as developing tweaks to internal resolvers for optimizing network performance. Deployment of DNSSec.
- Developing server automation for installation and lifetime management of Linux servers.
- Developed programs for gathering statistical data on runtime metrics.
- Design, implementation, testing and deployment of IPv6.

Education

DTU (Technical University of Denmark)

Kgs. Lyngby, Denmark

MSC. ENG. TELECOMMUNICATION

Aug. 2016 - Jun. 2018

- Theory and implementation in telecommunication related subjects.
- Specializing in Networks & Protocols, with a focus on courses as *Software-Defined Networking*, and *FPGA design for Communication systems*.
- Spent a semester abroad studying at KAIST in South Korea in the fall of 2017 studying amongst others *Telecommunication software design*.
- Master thesis: *Improving multicast applications in WiFi environments*. Making changes to Linux kernel drivers to change Multicast behaviour as well as a test framework written in Ruby - github.com/cmol/multicast-perf-test.

DTU (Technical University of Denmark)

Kgs. Lyngby, Denmark

BSC. ENG. IT & COMMUNICATION TECHNOLOGY

Aug. 2013 - Jun 2016

- Theoretical background in networking and internet, backed by project implementations.
- As part of a DTU course I did a port of the Cubesat Space Protocol from FreeRTOS to eCos - github.com/cmol/libcsp.
- Created an in home light automation system similar to the Phillips Hue as part of a course project - github.com/cmol/arduino-rgb.
- Bachelor thesis: *High precision timing in mobile fronthaul networks*. Implementation of the Precision Time Protocol in Ruby and C for my bachelor thesis. Created to test different aspects of the timing algorithm - github.com/cmol/ruby_ptp.

- Practical work with networking, system administration and programming. A very hands-on education.
- Nominated for honorary scholarship.
- Final project: OpenVPN wrapper for P2P VPNs behind NAT with UPnP-IGD, NAT-PMP and UDP hole punching - github.com/cmol/punchVPN.
- Internship at Fab:IT Aps.

Talent programs

Huawei: Seeds for the future

Beijing/Shenzhen, China

SELECTED STUDENT

Jul. 2016

Selected to be part of the Danish delegation for the program. This included a stay in China with other students in the program to work and learn in a group of different cultures, as well as network theory for mobile communication and fiber-to-the-home connections.

Publications

Caching at the Mobile Edge: a Practical Implementation

Kgs. Lyngby, Denmark

IEEE ACCESS

2018

Justas Poderys, Matteo Artuso, Claus Michael Oest Lensbøl, Henrik Lehmann Christiansen, and José Soler.

Projects

SOWA Sound

Copenhagen, Denmark

CO-FOUNDER

2017-2019

Took part in founding the startup creating low latency wireless speakers for everything from conferences to live music. Designed early version of the wireless communication for minimal viable products and funding pitches. <https://sowasound.com/>

DNSMessage

Toronto, Canada<https://github.com/cmol/dnsmessage>*2021*

Ruby library for parsing and building DNS messages for use in custom DNS servers.

Personal life

Much of my free time is devoted to different projects. I am currently playing in a band as a drummer and also managing many of the technical aspects related to sound engineering.

I attended *Den Rytmske Højskole (DRH)* (The rhythmic folk high school) in the spring of 2008 to further my music and collaborative experiences. During that time, I was in charge of organizing a tour in Denmark for my own and other bands.

In my youth, much of my time was spent as a scout at the local group. In my later years, I worked as a troop leader.

Besides using my time being creative with music, I have enjoyed experiencing the world through my exchange and by travel.

References

References can be provided by request.