# Toronto, ON, Canada

#### 希 www.cmol.me | 🖸 cmol | 🛅 lensboel | 📢 lensboel

aus **Lensbø**l

# Summary\_

Experienced Software Engineer specializing in Linux, networking, and digital communication systems. Strong expertise in designing and optimizing complex system, from high speed network testers to Canadian banking integrations. Passionate about OpenSource, network protocols, real-time synchronization, and multicast networking. Combines deep theoretical knowledge with hands-on implementation, delivering scalable and efficient solutions. Works effectively both independently and in teams, bringing a collaborative and proactive approach.

# Skills \_\_\_\_

Go/Golang, Ruby, C++, Socket programming, Bash, SQL, C
Git, Gitlab/Github, Jenkins, Jira, Crucible
Docker, Vagrant, Ansible, Gitlab CI
Ruby On Rails, Android, Sinatra
Danish, English
In-depth network protocol knowledge, Mobile networks and backhaul, Advanced Linux administration, OpenVPN,
Wireguard, CCNA, CCNP, Canadian banking systems using EDI/EFT/proprietary systems

# Experience

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#### SENIOR SOFTWARE ENGINEER

- Led backend development for a Ruby on Rails payroll platform, ensuring seamless payroll execution for thousands of businesses.
- Architected support for multiple banking partners, improving payroll reliability and removing single vendor risk.
- Integrated with a proprietary money movement system, optimizing payroll transactions and adding transaction state visibility.
- Spearheaded the migration of payroll infrastructure to a new banking partner with zero downtime, ensuring business continuity.
- Reduced payroll processing time by 25% by implementing a custom thread pool for tax calculations, accelerating batch transactions.
- Designed and deployed a new Canadian tax engine, enhancing tax accuracy and maintainability for payroll transactions.

#### **Lenbrook International**

SOFTWARE ENGINEER

- Developed and optimized software for hardware platforms, improving system performance and maintainability.
- Designed new protocol definitions for internal and external M2M communication, increasing data transmission efficiency by 80%.
- Part of migration of legacy Perl systems to Go/Golang, implementing an incremental rollout strategy to ensure a seamless transition to new codebase.
- Established CI pipelines and enforced coding standards for Go projects, removing most developer errors on primary branch.
- Built a local music library browsing mechanism in Go, enabling faster and more accurate search capabilities for end-users.

#### **Zeuxion ApS**

SOFTWARE & FPGA DESIGN ENGINEER

- Consulted on software and FPGA solutions, delivering high-performance systems for third-party clients.
- Developed a Hardware Abstraction Layer (HAL) in a large C++ codebase, ensuring future compatibility with next-generation hardware.
- Built software for high-speed network testing on an ARM Linux platform with a Qt frontend.
- Founded and led an internal education program, upskilling engineers in Git and collaborative development, increasing knowledge sharing.
- Optimized internal IT infrastructure, reducing deployment times and unifying the user experience across services.

## Fab:IT ApS

MARCH 30, 2025

LINUX DEVOPS & SOFTWARE ENGINEER

- Automated and optimized Linux/BSD environments, improving system efficiency and scalability.
- Maintained and upgraded a high-performance DNS cluster, enhancing query resolution speeds, and network reliability.
- Developed automation tools for server provisioning and lifecycle management, reducing manual effort and deployment errors.
- Built data collection tools for runtime metrics analysis, enabling proactive system monitoring and issue resolution.
- · Led the design and deployment of IPv6 infrastructure, ensuring future-proof networking capabilities.

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Toronto, ON, Canada Oct. 2022 - Present

### Jul. 2021 - Sep. 2022

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Værløse, Denmark

Sep. 2018 - Jun. 2021

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Copenhagen, Denmark

Aug. 2013 - Jun. 2018

Pickering, ON, Canada

# **Education**

# DTU (Technical University of Denmark)

MSc. ENG. TELECOMMUNICATION

- Specialized in Networks & Protocols, gaining expertise in Software-Defined Networking and FPGA Design for Communication Systems.
- Completed a semester abroad at KAIST, South Korea (Fall 2017), with a focus on *Telecommunication Software Design*.
- Master's thesis: Improving Multicast Applications in WiFi Environments. Modified Linux kernel drivers to enhance multicast behavior and developed a Ruby-based testing framework - github.com/cmol/multicast-perf-test.

# DTU (Technical University of Denmark)

## BSc. ENG. IT & Communication Technology

- Developed a strong foundation in networking and internet protocols through theoretical studies and hands-on projects.
- Designed and built an in-home light automation system similar to Philips Hue, integrating Arduino and IoT concepts github.com/cmol/arduinorgb.
- Bachelor's thesis: *High-Precision Timing in Mobile Fronthaul Networks*. Implemented the Precision Time Protocol in Ruby and C to test and optimize timing accuracy github.com/cmol/ruby\_ptp.

## Technical Education Copenhagen

Data Technician

- Nominated for an honorary scholarship for academic excellence and technical contributions.
- Final project: Developed an OpenVPN wrapper for P2P VPNs behind NAT, integrating UPnP-IGD, NAT-PMP, and UDP hole punching github.com/cmol/punchVPN.

# Talent programs\_

## Huawei: Seeds for the future

Selected student

- One of 10 students selected nationwide for Huawei's global talent program, representing Denmark.
- Participated in an immersive learning experience in China, gaining hands-on exposure to fiber-to-the-home technologies.
- Collaborated with international peers, developing cross-cultural teamwork and technical problem-solving skills.

# Course details\_

Telecommunication Software Design	Daejeon, South Korea
KAIST (Korea Advanced Institute of Science and Technology)	Fall 2017
Developed and implemented data link, and network layer protocols.	
Software-Defined Networking (SDN)	Kgs. Lyngby, Denmark
DTU (Technical University of Denmark)	Spring 2017
<ul> <li>Designed and deployed network services using the Software-Defined Networking (SDN) paradigm using OpenFlow.</li> <li>Introduction to Mobile Communication</li> </ul>	Kgs. Lyngby, Denmark
DTU (Technical University of Denmark)	Fall 2015
Studied data transmission techniques for 4G/LTE and emerging 5G technologies.	

# Publications \_\_\_\_\_

## Caching at the Mobile Edge: a Practical Implementation

IEEE Access

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

# Volunteer \_\_

## Various Projects

Open-Source Contributor

- Contributed bug fixes, and documentation updates to multiple OpenSource projects.
- Developed improvements for Go/Golang WiFi support on the Raspberry Pi Pico (github.com/soypat/seqs), and supported in debugging various DHCP protocol implementation issues.
- Enhanced Ruby networking documentation with clarifications and fixes.

# References \_\_\_\_\_

References can be provided by request.

# Kgs. Lyngby, Denmark

Kgs. Lyngby, Denmark

Aua. 2013 - Jun 2016

Aug. 2016 - Jun. 2018

## Ballerup, Denmark

Oct. 2008 - Jul. 2013

Jul. 2016

Beijing/Shenzhen, China

Kgs. Lyngby, Denmark 2018