

# Per Sunde

## Education

### University of Oslo, Norway — *Bachelors in Informatics: Programming and Networks GPA 4.0/4.0*

August 2015 - June 2018

The top graduating student from Informatics at UiO out of a class of over 300 graduating students. Focus on core Computer Science subjects, like Algorithms and Datastructures, Network communication and Operating Systems. **GPA 4.0/4.0**

### University of Bergen, Norway — *Bachelors in Rhetoric and Communications*

August 2011 - June 2014

Media and political communication, with a focus on public speaking. Bachelor thesis about political TV debates and how to get a good reception from Norwegian journalists.

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## Skills

Kubernetes

Web development

.NET/C#

Python

- Flask, FastAPI

JavaScript / Typescript

- React

Java

SQL / TSQL

Docker

Public Speaking

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## EXPERIENCE

### CERN, Geneva Switzerland — *Software Engineer - Kubernetes project for ATLAS Data-Acquisition*

Feb 2020 - Feb 2021

Researching and developing how to implement and run a bare-metal on-Premise **Kubernetes** cluster with 5000 machines, for one of the largest scientific research projects in the world.

Researching how to best optimize the cluster for our specific use case, by testing network performance with different CNI's, different cluster configurations, **Docker** images, how to optimize Horizontal-Autoscaling and more.

Writing K8S-Operators in **Java** and **Golang**. Integrating the current **Java** software stack with Kubernetes using K8S-Java libraries.

### Xledger, Oslo Norway — *Software Engineer*

August 2018 - September 2019

Web Integration specialist. Responsible for developing new API's, large database imports and integrating with external mobile payment systems using .NET, C#, F#, ASP.NET, Java, React, JavaScript/TypeScript and TSQL.

### CERN, Geneva Switzerland — *Summer Intern*

May 2018 - August 2018

Researching and developing new prototypes for Runtime Verification of **Python** programs at CERN. Developed a new library to verify correctness of software during runtime. Developed in **Python/Flask**, and a web interface using **JavaScript with jQuery**. Used **Openstack** and to help with the testing and running of the software.

### Simula Research Lab, Oslo Norway — *Engineering Ambassador*

September 2016 - June 2018

Promoting science and engineering to middle- and high school students. "Prepare project - making science more appealing to students". Received training in **Public Speaking** from public speaking professionals from the US and previous Engineering Ambassador from Pennsylvania State University.

### University of Oslo, Oslo Norway — *Teaching Assistant*

February 2017 - June 2018

Classroom teaching, correcting assignments and helping students in advanced and introductory courses in Logic and Computability for Computer Science students, and Computer Networks.

Courses: Logical Methods, Computability and Complexity, Computer Communications

## Selected courses in Computer Science

**INF3490 – Biologically inspired computing – Graduate course** – Machine learning course that covered evolutionary computation and artificial neural networks. We used **tensorflow** to develop and test different machine learning algorithms. (The course is not listed on my diploma, because you are not allowed more than 190 points on your diploma. I took this course, along with several others to have fun and learn more.)

**INF3510 – Information security** – Research project in E-voting security and its implications on the democratic legislation and processes in Norway.

**INF3190 – Computer Communication** – Covering the whole OSI and TCP/IP stack, more in depth of different transport protocols, like UDP and TCP, wireless communication such as 3G/4G and WiFi, IPv4 vs IPv6 etc. Developed a TCP/IP stack as part of our class exam project. The following year I was the Teaching Assistant for the class.

**INF3151 – Operating Systems – Graduate course** – Operating System theory, how all the major components in a OS, such as file system, networks, scheduling, System calls, etc. works in Unix like systems and Windows. Developed our own Operating System from scratch in teams of two, using Assembly and C.

**INF3331 – Problem solving with high level languages – Graduate course** – Using Python to solve various network and mathematical problems, using popular Python frameworks like Flask, Numpy, Numba, and more.

## Volunteer Work

### **Dagen@IFI Career fair non-profit, Oslo Norway — Vice President**

Januar 2017 - December 2017

Volunteer work. Organizing the largest career fair for IT students in Norway at the University of Oslo.

### **IAESTE: “The International Association for the Exchange of Students for Technical Experience” — Treasurer, Vice President, Career Fair Organizer**

August 2015 - January 2018

Independent, non-profit, non-political student internship exchange organization who works across the globe in over 90 countries. Welcomed over 100 international interns who worked for various Norwegian companies in the Oslo region. Organized a career fair at the University of Oslo for STEM students.

### **Mentor UiO — Buddy**

August 2016 - January 2017

Mentor, advisor and friend for Korean foreign students at University of Oslo.

## Language Courses

### **Korean language Courses**

June 2017 - July 2016 Ewha Womens University, Soul Korea – Summer student

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March 2015 - June 2015 Sogang University, Soul Korea – Fulltime