Per SUNDE

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Skills

Kubernetes
AWS
Git / GitHub / Gitlab
JavaScript / Typescript
– React, Vuet, Node
Java
.NET/C#
SQL / TSQL
Docker / Containers
Golang
Public Speaking

Education

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

August 2015 - June 2018

The top graduating informatics student out of a class of over 300 graduating students. The degree had a focus on core Computer Science subjects, like Algorithms and Datastructures, Network communication and Operating Systems. **GPA 4.0/4.0**

EXPERIENCE

Adriel — Seoul, Korea — Backend Cloud developer

September 2021 - ONGOING

Developing **AdTech** SAAS cloud solutions using **AWS**, **Naver Cloud**, **Kubernetes and Docker Swarm**, automatic testing and external API integration development for a **Series B startup**. Full Stack **Javascript** development. **Vuejs** frontend and **Express/Node** backend.

- Migrating from single server deployment to a fully cloud based high availability and multi region setup across Asia and US using **AWS**, **Docker Swarm** and **Kubernetes**.
  - Architect for the new High Availability and multi-region cloud system on AWS.
  - Migrating and upgrading the **Postgres** databases to AWS with zero downtime.
  - Auto-deployment integration with CI/CD.
  - Automatic rollback for bad deployments.
- Responsible for migrating the codebase from **JavaScript** to **Typescript.**
- Integration with APIs from Facebook, Google Analytics, Twitter, Reddit, TikTok and more.
- Automate CI/CD pipelines with **Gitlab** and improve **automatic testing**.
- Dramatically reduce server 95 percentile response time from over 60 seconds to under 2 seconds.

CERN — Geneva, Switzerland— Kubernetes *Software Engineer*

Feb 2020 - April 2021

Researching and developing a on-Premise **Kubernetes (K8S)** project that will run on 5000 machines, for one of Europe's largest scientific research projects. Work mostly done remotely, as part of the technical student program.

- Testing the **Kubernetes** network performance, optimizing Autoscaling, deployment and more for **Kubernetes**.
- Developing K8S-Operators in **Java** and **Golang** and other programs in **Python** and **Node**, code hosted on **Gitlab**.
- Extending current in-house **Java** software to make it run on Kubernetes and containerize the application (**Docker)**
- Using **Puppet** and **Ansible** to auto-deploy and destroy clusters on demand.

Xledger — Oslo, Norway— *Software Engineer*

September 2018 - October 2019

.NET and **Java** Backend developer. Integrating external API's and datasets, developing new API's and user facing features for our web-based ERP. Focus on API integration to develop new financial services for our ERP customers.

- Instant loans, invoice sales and other financial services
- Instant credit check
- Integrating with new payment systems like Vips, credit check systems, and more
- Using large external datasets to check and give auto-complete features for user inputs
- Improve security based on IP and GeoLocation and Email and Password protection with https://haveibeenpwned.com/
- Government systems integration with tax authorities and more for sending invoices, taxes and user authentication

Development done in **.NET, C#, F#, ASP.NET, Java, React, JavaScript/TypeScript and T-SQL with Microsoft SQL-Server**

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** to help with the testing and running of the software.

Simula Research Lab, Oslo Norway — *Engineering Ambassador*

September 2016 - July 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.

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

Certification

Certified Kubernetes Application Developer (CKAD) - Training for the certification. To be completed around October 2022.

Volunteer Work

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

Januar 2017 - December 2017

Volunteer work. Organized 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 that 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.

Language Courses

Korean language courses

June 2021 - September 2021 Sogang University, Seoul Korea

June 2016 - August 2016 Ewha Womans University, Seoul, Korea

March 2015 - June 2015 Sogang University, Seoul Korea