



Jakob Simonsen

Software engineer

📁 Employment History

Software engineer at IBM, Oslo

November 2018 — Present

Working as a software engineer part-time at IBM in the BlueSmarts program.

- **Natural language processing**
 - *Angular, React, Ionic, Node.js, TypeScript, PostgreSQL*
 - Lead developer on an NLP data generation app used for sentiment data analysis and model training.
 - Deployed and managed the distributed system in over 11 countries, including Russia and India.
- **Consumer-facing system for supply chain transparency**
 - *IBM BTS, Python, FastAPI, TypeScript, React, PostgreSQL*
 - Developer and architect for a Consumer-facing application used for transparency based on blockchain technology in the fishing industry.
- **IBM Food Trust IoT prototype**
 - *IBM Food Trust, Node.js, C++, PostgreSQL*
 - Developed a system for sensor data transmission from moving cars to create blocks committed to the blockchain system IBM Food Trust.
- **IBM Food Trust consumer-application**
 - *IBM Food Trust, React, Node.js, MongoDB*
 - Demo application for supply chain with blockchain technology.
- **IBM Internal tooling**
 - *Python, Bash, PostgreSQL, IBM cloud*
 - Developed data pipelines for NLP data.

Teaching assistant at Oslo Metropolitan University, Oslo

August 2018 — January 2020

Teaching assistant in DAPE1400 at OsloMet.

- Java
- Object oriented programming
- Basic design patterns

🎓 Education

MSc Computer Science, Norwegian University of Science and Technology, Trondheim, Norway

August 2020 — June 2022

BSc Software Engineering, Oslo Metropolitan University, Oslo, Norway

August 2017 — June 2020

Details

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Links

[LinkedIn](#)

[GitHub](#)

[Homepage](#)

Skills

SQL

Golang

Python

Node.js

IBM Cloud

Java

JavaScript

Software architecture

Agile Development

Microsoft Azure

Matlab

React

Kubernetes

Docker

Distributed Systems

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Extra-curricular activities

Chair of the board of directors at The Norwegian Society of Engineers and Technologists - student organization OsloMet, Oslo

February 2018 — September 2019

The science and research board of directors at Oslo Metropolitan University, Oslo

May 2018 — May 2019

Chair of the board of directors at OsloMet Kode, Oslo

June 2019 — June 2020

Courses

Programming with Google Go specialization, UC Irvine

January 2020

IBM Blockchain , IBM

September 2019

Oslo student innovation program, UiO/BI/OsloMet

January 2018 — May 2018

Projects

Industrial IoT and edge computing with Azure Cloud standard components, Norwegian

December 2019 — June 2020

BSc thesis written for Kongsberg Digital about a proof of concept IoT solution and database test done in spring 2020. Testing speed, cost, and reliability between PostgreSQL, Azure SQL and Time series insight (fully managed azure solution).

Matrix equation solver, MatLab

March 2018 — May 2018

A matrix equation solver for use in one-off my mathematics courses that can solve and show the most efficient way to do an equation with a matrix.