

Alexander Dahl

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LinkedIn profile

Experience

Work

- 2020-08 **Data Engineer**, *ICA Gruppen*, Stockholm.
current
 - Maintaining and building data pipelines for personalized marketing in Spark and Python
 - Pipeline scheduling in Airflow and bash
 - Setting up CI/CD in Jenkins and Gitlab CI
 - Maintaining the on-prem Hadoop cluster's health, such as:
 - Approving cluster changes
 - Ensuring GDPR compliance by monitoring and automatically deleting old data
 - Decreasing the number of small files
 - Leading effort on integration testing to decrease lead time for cluster upgrades
- 2018-01 **Database Technology Lab Assistant**, *Linköping Institute of Technology*, Linköping.
- 2019-01 I taught 100 Master's degree students about SQL, Database Design, EER-diagrams, Relational Models and Database Normalization.
- 2015-10 **Science Teacher**, *Streteredsskolan*, Kålleröd.
- 2016-06 Worked a school year as a middle school science teacher.

Other

- 2019-06 **English Volunteer**, *Ganbaro Miyagi*, Hokkaido, Japan.
I was an English speaking volunteer at a Japanese summer camp to promote cultural exchange.
- 2016-06 **Rode a bicycle 10 000km from New York to Costa Rica.**
- 2017-02 Got strong legs, a perspective on life and ate a lot of tacos! [Here is a picture of my route!](#)

Education

- 2017-03 **M.Sc. Computer Science and Supply Chain Management**, *Linköping Institute of Technology*, Linköping, Sweden.
- 2020-05
 - **Master's thesis:** Used data mining to find an allocation for a picking machine at Apotea AB (an online pharmacy). The allocation yielded a 5% increase in efficiency without any additional costs. Read thesis [here!](#) See the python code [here!](#)
 - **Student Union:** Was Head of IT for LARM, Linköping's largest career fair, in 2018-2019. One cool thing I did was creating a mathematically optimal interview schedule with gurobi and python. See that project [here!](#)
- 2014-08 **B.Sc Computer Engineering**, *Karlsruhe Institute of Technology*, Karlsruhe, Germany.
- 2015-08 Erasmus year in Germany, where I also finished by Bachelor's thesis
- 2012-08 **B.Sc Computer Engineering**, *Linköping Institute of Technology*, Linköping, Sweden.
- 2014-08 With some extra courses in German

Technologies

- DevOps Docker, Jenkins, Ansible, Gitlab CI, Drone
- Data Eng. Python, SQL, Elasticsearch, Airflow, Spark, Hadoop
- General GNU/Linux, Git, bash, Traefik, Proxmox, Agile

Languages

Swedish	Native Speaker	<i>Can't say R correctly</i>
English	Fluent	<i>Occasionally with a southern twang from my weeks in the deep south</i>
German	Good knowledge (B2)	<i>Good reading and listening comprehension, adequate speaking</i>
Spanish	Good enough	<i>Survived 5 months in Latin America</i>

Side Projects

Home Server	I have a home server that I am hosting different things on, for example my website dahl.dev . Running several docker containers that all interact with each other in some way, check out a more detailed description here!
Elastic Stack	I am capturing external ssh requests to my server and sending them to Elastic through Logstash to create some cool Kibana dashboards of hackers trying to brute force my ssh password. Link to the dashboard . Read more about my Elastic Stack here!
Web Pipeline	I built my own place on the internet (dahl.dev) with Angular, link to repo . To make everything as automatic as possible I have a CD pipeline set up with Docker, github, Drone and Watchtower. Upon each push to master Drone will build a Docker image, push it to dockerhub and then watchtower will pull and deploy it on my server. See a more detailed description here!