

Alexander Dahl

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Experience

- 2020-08 **Data Engineer, ICA Gruppen, Stockholm, Sweden.**
current
- Developed data pipelines for personalized marketing that reaches 3 million ICA customers each month and delivers 500 Million SEK in yearly value using Spark, Airflow, Python and SQL
 - Productionized models developed by data scientists, in one case decreased the production fires from every week to 0 through better scheduling, validation and code quality
 - Developed CI/CD pipelines for automatic testing, code quality checks and better release process with Jenkins, Gitlab CI and Ansible
 - Decreased release to production cadence from once a week to several per day
 - Lead an internal GDPR-audit to find data that should be deleted and created jobs to automate the deletion process
 - Migrated data pipelines from the on-prem Hadoop cluster to Google Cloud Platform
 - Built the new GCP infrastructure using Terraform with Customer-Managed Encryption Keys to protect GDPR-sensitive data
- 2018-01 **Database Technology Lab Assistant (TDDD37), Linköping Institute of Technology.**
2019-01
- Taught students about SQL, Database Design, EER-diagrams, Relational Models, Functional Dependencies and Database Normalization

Technologies

Data Eng. Python, SQL, Airflow, Spark, Hadoop
DevOps Docker, Jenkins, Gitlab CI, Drone, Elastic Stack, Grafana
GCP BigQuery, DataFlow, Composer, Psyduck
IaC Terraform, Ansible, docker-compose
General GNU/Linux, Git, bash, Traefik, Agile, Scrum

Education

- Graduated **M.Sc. Computer Science and Supply Chain Management,**
2020-05 *Linköping Institute of Technology, Linköping, Sweden.*
- **Program:** Industrial Engineering and Management
 - **Study abroad:** One Erasmus year at Karlsruhe Institute of Technology in Karlsruhe, Germany
 - **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.

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!](#)

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!](#)

Monitoring I collect data regarding performance and net speed on my raspberry pi, push it to TimescaleDB and built a dashboard in Grafana. Link to dashboard: grafana.dahl.dev

Other

- Was an English speaking volunteer at a summer camp in Hokkaido, Japan in 2019
- Rode a bicycle 10 000km from New York to Costa Rica, [here is a picture of my route!](#)