

# Alexander Dahl

Stockholm  
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📁 [dahl.dev](https://dahl.dev)  
[github.com/aleda145](https://github.com/aleda145)  
[LinkedIn profile](#)

## 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](https://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](https://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!](#)

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## 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!](#)
- I use Arch Linux