

Alexander Dahl

Stockholm
✉ alex@dahl.dev
📄 dahl.dev
[Github](#)
[LinkedIn](#)

Experience

- 2022-06 **Sabbatical.**
- 2023-01 Mostly travel but some side projects as well:
- bostadsbussen.se, a website for scraping real estate listings for the Swedish market. Built with React, Go, SQLite. Hosted on Cloudflare, fly.io and GCP. Tech breakdown on my blog
- 2021-09 **Data Infrastructure Engineer (Google Cloud), ICA Gruppen, Stockholm, Sweden.**
- 2022-06
- Set up and designed the data infrastructure stack for ML on GCP (Vertex, Composer & BigQuery) and a CI/CD pipeline with GKE using Terraform and Terragrunt.
 - Built the infrastructure to give Data Scientists a lot of autonomy. The DS team delivered a time series prediction model for inventory levels to stakeholders with minimal help from Data Engineers.
 - Created a devcontainer as a one-stop-shop for setting up an environment with the internal tools as well as GCP. New Engineers went from manually installing their environment, taking several days, to being up and running in an hour by simply pulling a docker image. Promoted this company wide through demos, which resulted in it being adopted by several teams.
 - Held workshops with data scientists about services on GCP to ease their transition from working on-prem to the cloud
- 2020-08 **Data Engineer (On-prem Hadoop cluster), ICA Gruppen, Stockholm, Sweden.**
- 2021-08
- Developed machine learning data pipelines for personalized marketing that reaches 4 million ICA customers each week and delivers 500 Million SEK in yearly value
 - Used Spark, Airflow, Python and SQL for the above mentioned pipelines which processed the transaction history of all customers at ICA (10B+ rows)
 - Lead initiative to increase performance for critical pipelines. Decrease CPU and memory usage by as much as 50% by rewriting queries and taking advantage of Spark's features
 - Developed CI/CD pipelines for linting, automatic testing, code quality checks and better release process with Gitlab CI, Jenkins and Ansible
 - Decreased release to production cadence from once a week to several per day through a completely automated CD pipeline
 - Spread knowledge about shell and Linux to my team to the point that they were self-operating regarding basic scripting and Linux tasks
 - Revamped the Onboarding process so new developers were up and running and closing JIRA tickets within a week

Technologies

Data Eng.	Python, SQL, Go, Airflow, Spark, Hadoop
DevOps	Terraform, Docker, Jenkins, Gitlab CI, Grafana
GCP	BigQuery, Dataflow, Composer, Vertex, IAM, Cloudrun
General	GNU/Linux, Git, bash, networks

Education

- Graduated **M.Sc. Computer Science & Industrial Engineering and Management,**
- 2020-05 *Linköping Institute of Technology, Linköping, Sweden.*
- **Master's thesis:** Product allocation in a warehouse solved with data mining
 - **Student Union:** Was Head of IT for [LARM](#), Linköping's largest career fair, in 2018-2019.
 - **Study abroad:** One Erasmus year at Karlsruhe Institute of Technology in Karlsruhe, Germany

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, detailed description [here!](#)
- Monitoring I collect data regarding performance, net speed and ambient temperature/humidity for my Raspberry Pis, push it to TimescaleDB and have a dashboard in Grafana. Link to dashboard: grafana.dahl.dev
- Dashboarding Built a dashboard out of Swedish Higher Education Enrollment stats from 1995-2021, available [here!](#)

Other

- Checkout my Linux-environment scripts [here!](#)
- Rode a bicycle 10 000km from New York to Costa Rica, [here is a picture of my route!](#)
- I am an Apache Beam contributor by fixing a small path change for a Spotify project, not much but still fun to exist in the git log! [Here is the link to the PR](#)
- I like using emojis 😊