

# HESAM PAKDAMAN

 [hesampakdaman](#)

## Programming languages

[Go](#) [Python](#) [Lisp](#) [Rust](#)

## EXPERIENCE

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Einride

### Software Engineer

Aug 2024—

Einride is a pioneer in autonomous and electric transportation, dedicated to delivering sustainable and efficient logistics solutions. I am part of the Data team, responsible for collecting telemetry from all vehicles and ensuring it is accessible to all engineering teams.

[GCP](#) [gRPC](#) [PostgreSQL](#) [Pub/Sub](#)



H&M Group

### Software Engineer

Mar 2023—June 2024

I helped develop the e-commerce platform Creator Studio, a venture within global fashion company H&M, for designing, ordering, and selling custom print-on-demand merchandise globally with an emphasis on minimal environmental impact.

[k8s](#) [Kafka](#) [MongoDB](#) [PostgreSQL](#)



Budbee

### Machine Learning Engineer

Apr 2022—Feb 2023

Budbee is a Swedish last-mile delivery company focusing on efficient deliveries for online shopping across Europe. I was part of the ML team, providing predictions and data insights to support various departments within the company.

[LightGBM](#) [Metaflow](#) [MySQL](#) [PyTorch](#)



Entecon

### Machine Learning Engineer

Feb 2021—Mar 2022

Entecon is a Swedish consultancy firm. I was contracted to work for Nielsen, a US-based company providing advanced video metadata solutions to leading media companies. My role was to assist the team responsible for video segmentation.

[Matplotlib](#) [NumPy](#) [Pandas](#) [PyTorch](#)



DING

### Machine Learning Engineer

Jan 2018—Feb 2021

Hired at DING as a consultant for Convini, a Swedish company providing workplace food solutions through self-service stations. I built a deep learning system using cameras mounted on fridges to detect products customers selected.

[CUDA](#) [FLIR](#) [NumPy](#) [PyTorch](#)

## EDUCATION

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### KTH Royal Institute of Technology

*Civilingenjör i Teknisk fysik*

- 2015—2018 MSc. Computer Science
- 2012—2015 BSc. Engineering Physics

## HOBBY PROJECTS

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[1 billion row challenge](#). This challenge involves processing one billion temperature measurements to compute the minimum, mean, and maximum temperatures per weather station. I implemented this in Rust, leveraging its `std::sync::mpsc` and `std::thread` standard libraries for efficient, parallel data handling and memory-mapped files for optimized I/O performance and a custom hash function tailored for the dataset. The project achieves high performance, processing the entire 13GB input file using all available CPU cores. On an Apple M1 Pro it processes the input file in  $\sim 2.75$ s.