Hesam Pakdaman

hesampakdaman

Backend engineer with experience in developing scalable distributed systems, focusing on fault-tolerant event-driven architectures. Enjoys hexagonal architecture and domain-driven design to build maintainable, adaptable software. Also has prior experience with artificial intelligence, specializing in machine learning with deployed models for predictive analytics, video segmentation, and real-time object detection.

Programming languages

Go | Python | Lisp | Rust

Experience

Einride

Backend Engineer
Aug 2024—Feb 2025
Optimized legacy data flows and introduced an event-driven architecture for scalable telemetry processing. Restructured the codebase for better adaptability. Reduced integration test time and improved observability with structured error reporting. Authored ADRs to standardize logging.
GCP | gRPC | PostgreSQL | Pub/Sub

H&M Group

Backend Engineer
Mar 2023—June 2024
Designed and implemented new microservices, introducing event-driven patterns like the outbox pattern. Contributed to backend architecture discussions and feature development in the order flow, including order moderation and partial fulfillment handling.
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

KTH Royal Institute of Technology
Civilingenjör i Teknisk fysik
- 2015—2018 MSc. Computer Science
- 2012—2015 BSc. Engineering Physics