

Izhar ul Hassan

SOLUTIONS ARCHITECT · IoT ARCHITECT · CLOUD ARCHITECT

Malmö, Sweden

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"We are bound by our choices, but we are more than our mistakes."

Summary

- Solution Architect specializing in IoT, Cloud, and Data Platforms with **15+ years** of experience
- Experience delivering scalable, secure, and production-grade solutions across industries including manufacturing, shipping, telecom and healthcare
- Skilled in designing and leading IoT edge platforms, cloud-native microservices
- Hands-on with Azure and AWS cloud environments
- Experience with end-to-end architecture design

Skills

| | |
|--------------------------------|---|
| Cloud | Azure, AWS, Google Compute, Openstack |
| IoT and Edge | Edge platform, IoT Hub, OPC UA, Modbus, Edge Gateways |
| Architecture and Design | Domain Driven Design, Microservices, C4 Architecture |
| Data Engineering | Spark, Hadoop, Kafka, InfluxDB, Jupyter |
| Programming | Python, bash |

Experience

Grundfos

SOLUTION ARCHITECT

Hybrid, Denmark

Jan. 2025 - Present

- Designing scalable, cyber-secure architecture for **District Heating Optimization System**
- Working with End-to-End IoT architecture design
- Working with Stakeholders to understand business requirements and designing architectural roadmap
- Integration of **pumping hardware** to **Cloud** via Edge Gateways
- Working with Industrial protocols **Modbus, OPC UA**
- Integration of **Edge devices** to **SCADA**
- **Tech stack:** Azure, python, IoT, Industrial automation, Solution Architecture

Alfa Laval

IoT PLATFORM ARCHITECT

Copenhagen, Denmark

Sep. 2018 - Dec 2024

- Worked across business divisions to capture digital requirements and deliver scalable IoT solutions
- Designed and implemented End-to-End IoT platform with **microservices**
- Recruited and Trained IoT Development team from grounds up
- Integration into PLC solutions over Industrial protocols **OPC UA, Modbus, BLE**
- Developed device provisioning and commissioning workflows (Azure IoT Hub, Ansible, AWX)
- Implemented **Terraform, Ansible** for infrastructure automation
- Delivered metrics and monitoring stack (Telegraf, InfluxDB, Chronograf)
- **Tech stack:** Azure, python, Docker, IoT, Industrial automation, Solution Architecture

Novo Nordisk

AWS TECH LEAD

Copenhagen, Denmark

Mar. 2022 - Sept. 2022

- Architected predictive maintenance platform leveraging AWS Lambda, S3, Timestream, SQS
- Developed scalable microservices and data pipelines
- Applied Infrastructure as Code (CDK) and CI/CD with Azure DevOps
- Enabled visualization with Grafana for operational insights
- **Tech stack:** AWS Lambda, Grafana, AWS Timestream, AWS CDK, Python, Amazon S3

AP Moller Maersk

LEAD AGILE DEVELOPER

- Led data engineering team migrating on-prem Datalake to Azure Cloud
- Designed microservices-based Datalake architecture for analytics and ML
- Built ingestion, storage, and archival strategies for high-volume data
- **Tech stack:** Azure, python, Docker, Kubernetes, Kafka, spark, Hadoop

Copenhagen, Denmark

Aug. 2017 - Aug. 2018

Telia Sonera

SOLUTION ARCHITECT

- Built multi-tenant Kerberized Data Lake for telecom network data
- Built Data Pipelines for Crowd Analytics, Network Data (probes, CDRs), IPTV
- Optimized Spark jobs (10x speedup for anonymization)
- Migrated workloads from MapReduce/Hive to Spark
- **Skills:** Hadoop, Apache Spark, Python, Solution Architecture, Cloudera

Stockholm, Sweden

Mar. 2016 - Jul. 2017

PDC Center for HPC, KTH

RESEARCH ENGINEER

- Supported and optimized parallel programming applications using **MPI**, **OpenMP**, and **CUDA** on PDC clusters
- Administered and operated the **Cray XE6** supercomputer (35,000+ cores)
- Managed installation, configuration, and maintenance of HPC software environments
- Designed and developed a monitoring and accounting dashboard for cluster jobs (**Django**, **MySQL**, **jQuery**, **HighCharts**)
- Collaborated with researchers to design, parallelize, and **optimize high-performance applications**
- Authored and maintained end-user documentation for HPC resources
- Delivered technical support and training workshops for new users and staff

Stockholm, Sweden

Jun. 2009 - Feb. 2015

Education

KTH, Royal Institute of Technology

MASTERS IN SCIENTIFIC COMPUTING (COURSEWORK)

- Specialization in High Performance Computing

Stockholm, Sweden

2008

National University of Science and Technology

BACHELORS IN INFORMATION TECHNOLOGY

- Focus on Algorithms and Data Structures

Islamabad, Pakistan

2002 - 2006

Sprog🌐 Fransk5 Engelsk5 Dansk4 Esperanto1 IT skills📁 AutoCAD5 Microsoft Office4 Linux4 TCP/IP Lan3
Dimension3 FEM Design2 Robot2 \LaTeX 2