







# Casper Kristiansson

Studying MSc Computer Science at KTH  
Royal Institute of Technology



## CONTACT

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-  github.com/CasperKristiansson

## PROFILE

MSc Computer Science candidate at KTH Royal Institute of Technology, with expertise in cloud computing, full-stack development, and managing complete software pipelines. As a co-founder of Klimra and PKTraffic, I have successfully led the development of scalable, cloud-based solutions for real-world applications. Additionally, as a consultant at Scatterin, I built a platform for real-time data analysis of neutron and synchrotron experiments, ensuring efficient handling of large-scale datasets throughout the entire pipeline.

## EDUCATION

### KTH Royal Institute of Technology

*Master of Science in Computer Science*

2023 – 2025

- Exchange Semester: Kyushu University, Japan (2024)

### KTH Royal Institute of Technology

*Bachelor of Engineering in Computer Engineering*

2020 – 2023

- Exchange Semester: The Hong Kong University of Science and Technology, HK (2022)

## WORK EXPERIENCE

### Scatterin

*Full Stack Developer*

Feb 2023 – Present

- Built cloud-based platform for real-time data analysis of neutron and synchrotron experiments
- Developed **100+ AWS Lambda endpoints**, managing large datasets on AWS infrastructure
- Built and maintained a **10+ service** AWS infrastructure using IaC across multiple stages
- Designed a custom frontend for managing large datasets, enabling users to interact with **100s gigabytes** of data.

### Klimra

*Co-Founder & CTO*

Aug 2024 – Present

- Developed automated compensation system for train delays
- Built a solution that meets Google's strict security policies with integrating with their services

### PKTraffic

*Co-Founder & CTO*

Dec 2020 – Sep 2024

- Created a hybrid system for processing traffic data from **3,000 highway cameras** using AWS and on-premise servers
- Designed a scalable video storage solution for **10s terabytes**, leveraging AWS S3 Glacier to cut long-term storage costs
- Successfully recorded video data from approximately **45,000 traffic incidents**, contributing to robust analytics

### Northvolt

*Backend Software Engineer Intern*

Jun 2022 – Aug 2022

- Developed GraphQL endpoints in Go integrated with serverless computing
- Modeled data in DynamoDB and used Terraform to automate AWS infrastructure

### PostNord

*Full Stack Developer*

Jul 2021 – Aug 2021

- Developed Python-based image editor and mass email sender, reducing task completion **time by 75%**
- Used PyQt and QT Designer for application development



## CERTIFICATION



**Elements of AI – Introduction to AI**  
*University of Helsinki*



**Elements of AI – Building AI**  
*University of Helsinki*



**CCNA: Enterprise Networking, Security**  
*Cisco*



**CCNA: Switching, Routing, Wireless Ess.**  
*Cisco*

## AWARDS

- **Sten Vigrens Stipendiefond**
- **Scandinavia–Japan Sasakawa Foundation**
- **Anna Whitlocks Minnesfond**

## PUBLICATIONS

**Cloud Computing Pricing & Deployment Efforts**  
*KTH Royal Institute of Technology, June 2023*  
Explored the cost and implementation challenges of cloud services with a focus on public and private providers.

## PROGRAMMING LANGUAGES

- **Python**
  - **Java**
  - **C**
  - **C++**
  - **Rust**
- **Javascript**
  - **Typescript**
  - **Golang**
  - **Elixir**
  - **SQL**

## LANGUAGES

- **Swedish:** Native or bilingual proficiency
- **English:** Full professional proficiency
- **French:** Elementary proficiency

## TECHNICAL SKILLS

- **Databases:** MySQL, PostgreSQL, DynamoDB, MongoDB, Firebase
- **Frameworks & Libraries:** React, Redux, Flask, GraphQL, pytest, JUnit
- **DevOps:** Terraform, Serverless, Docker, Github Actions
- **General:** API Development, Full-Stack Development, Microservices, Solution Architecture, ETL (Extract, Transform, Load), Version Control (Git)
- **AWS Services:** Lambda, S3, RDS, DynamoDB, ECR, ECS, EC2, IAM, CloudFormation, Route53, SES, Cognito federation, Cloudfront

## PROJECTS

**WeatherBrain:** Developed a machine learning-based weather prediction system using IoT devices and real-time data. The project involved building a time-series prediction model in TensorFlow, utilizing data from a Raspberry Pi-connected IoT sensor to forecast weather conditions. I sourced historical weather data from a website in Sweden and integrated Azure services to automate daily predictions.

For more projects, visit: [casperkristiansson.github.io/Personal-Portfolio](https://casperkristiansson.github.io/Personal-Portfolio)