

Matti Remes



Data Engineer ❖ Kaidan Oy ❖ remes@iki.fi ❖ +358 (0)40 937 7196 ❖ [linkedin.com/in/mremes](https://www.linkedin.com/in/mremes)

I am a software developer specializing in development and design of data-intensive backend applications and data science tooling. My experience includes instrumentation of the application code for data collection, developing data pipelines and services, and providing data scientists with tools for accessing data programmatically and/or graphically. I also have good knowledge of many database engines and the best practices of handling big data.

I have strong knowledge of the Python programming language and its many open-source libraries. In addition to Python, I'm proficient with the JVM ecosystem and languages such as Clojure and Java. I'm used to programming in a Unix environment, so I'm familiar with Unix tools and Bash scripting. I have also done full-stack programming using React/GraphQL/Express stack, and C programming as part of my studies and hobby projects.

As part of the knowledge I've gained being a professional software developer, the essential DevOps and team collaboration tools and methodologies have become familiar to me. These include things such as version control, containerization, orchestration, CI and CD tools, infrastructure as code, clouds and Scrum.

TECHNOLOGY STACK

Software Development

Languages	Python, Java, Clojure, JavaScript, Bash, C#
Databases	PostgreSQL, MongoDB, Cloud Datastore, CosmosDB
Web Technologies	Flask, Django, DjangoCMS, Sanic, React, Express.js

Data Platform Engineering

Languages	Python, SQL
Databases	BigQuery, Vertica, Exasol
Frameworks and Platforms	Beam, Airflow, Spark

Infrastructure

DevOps	Docker, Kubernetes, Terraform, Jenkins, Bamboo, Leiningen, Maven
Cloud Vendors (with certifications)	GCP (Data Engineer), AWS (Solutions Architect – Associate)
Services	RabbitMQ, Redis, Kafka

FREELANCING

Since the beginning of 2019, I've been with working as a freelance software developer in projects related to data engineering and data science. My main motivation for that is to help my customers find ways to deploy modern data technologies and the state-of-the-art data platform designs.

My clients to-date include:

- HiQ Finland Oy – developing data science tooling as a subcontractor to Veikkaus Oy
- Reworks Oy – developing a data platform and DevOps pipelines from scratch for the mobile gaming startup
- Siili Solutions Oyj – organizing and delivering an Apache Airflow training for the personnel
- Helsingin Asumisoikeus Oy – solutions architect doing e.g. a data management audit and the most urgent IT tasks

WORK EXPERIENCE

Revolut Ltd

Software Engineer

8/2019 – 10/2019

Vilnius, Lithuania

While staying in Vilnius, Lithuania, I was working at Revolut as a software developer in an anti-money laundering team. I improved the existing software by using profiling and static analysis tools and rolled out changes to production. I was also involved in development of a streaming data processing service, Terraform IaC modules and ETL pipelines.

Next Games Oyj

Data Engineer

12/2016 – 3/2019

Helsinki, Finland

I was a software developer as a member of the company's backend and analytics teams. My role as the company's data engineer included:

- developing a user-friendly data platform for the use of the whole company (especially data science and player support teams)
- modeling and developing the data warehouse, pipelines and integrations
- creating a general reporting and visualization framework for the company's game portfolio
- developing an SDK for the game developers to add analytics data to be sent from invoking game interactions
- developing the game servers to emit useful data from the backend to the data platform
- making the data platform GDPR-compliant
- assisting data scientists, QA and player support to debug issues

Eficode Oy

Software Engineer Consultant

10/2015 – 11/2016

Helsinki, Finland

I was a software development consultant working for many clients in a development role. The main project to which I contributed was a sports data analytics service implemented as a REST API with Clojure programming language and Vertica DB.

Mediahuone

Part-Time Entrepreneur, Web Developer

3/2010 – 8/2012

Pori, Finland

While being in high school, I designed and implemented websites for three local businesses and one election candidate. My stack was Drupal CMS, HTML, CSS and JavaScript for development and the Adobe suite for design. I produced marketing materials such as flyers and stickers for my customers.

EDUCATION

University of Helsinki

B.Sc., Computer Science

09/2012 - 05/2019

Helsinki, Finland

I studied computer science, mathematics, statistics and economics. My bachelor's thesis was about a reinforcement learning problem called *multi-armed bandit*. I was also an active student nation member and acted as a system administrator, a treasurer and a board member. I have plans to continue to pursue the master's degree when the time is right.