# Tomáš Heřman

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| **⚑ Nationality** | Czech | **☺ GitHub** | github.com/tomasherman |

## Open source

**datadog4s**  Monitoring library for Cats-Effect based scala application.

## Employment History

**Aug 2019 - Present**  Avast Software, Prague
*Team Lead, Senior Software engineer*

Promoted to the position of Team lead of 3 (and later 6) backend-developers. In addition to Team Lead duties (1 on 1s, Sprint plannings, hiring (for mine and other teams) etc), I also spent a lot of time talking to Product about new features, improvements and ideas. I helped design said features and make sure they get implemented on time and in adequate quality. I took care about make sure that estimates are realistic and what we commit to is feasible and relevant.

**Technologies:** Scala, Cassandra, Kafka, RabbitMQ, Netty, Http4s, cats-effect, Netty, Kubernetes, Helm, AWS, Terraform

**Mar 2016 - Aug 2019**  Avast Software, Prague
*Software Engineer*

As a Software Engineer I worked on many different services, all related to providing/processing data to/from Avast Anti Virus. In addition to coding, I played a big role in introducing Functional Programming to engineers that were already working in *Scala as a better Java* mode.
To do that, I (with few others) prepared many talks, libraries, workshops etc. to introduce FP concepts/techniques to my colleagues. Some interesting projects I worked on:

- DNS proxy written in Netty & Scala

- System for scanning Android APKs from Avast partners

- High throughput, highly cost-sensitive websocket server for Avast Omni project

In addition to SW Engineer workload I've been part of a L1 on-call rotation for automated tests and monitors.

**Technologies:** See Above

**2014 - Feb 2016**  Golem Trading for Wikidi, Prague, Czech Republic
*Software engineer*

I returned to Wikidi to work in a very small team on Golem trading platform. I worked on *Trader* app which made decision about trading and I also wrote an UI for the founder/thought leader to watch/control what the trader is doing. Eventually I became the lead for the platform.

**Technologies:** Java, Kotlin, FIX, ReactJS, Google Sheets updated via Python

**2013 - 2014**  Spinoco, Prague, Czech Republic
*Solution Designer*

Worked as a full-stack (but mostly back-end) developer in a small team on a Telco app, which used very advanced Scala concepts/tools like scalaz-streams or ScalaJS. In addition to developer work I also had a chance to interact with clients and even attended a sales meeting.

**Technologies:** Scala(JS), Scalaz Streams (later evolved into FS2 streams), Scalaz, Play Framework, Cassandra

**2012 - 2013** Magic Table project for Wikidi, Prague, Czech Republic
*Developer*

I was the sole developer on the project (lead by the founder). I was responsible for web-crawling, data processing pipeline, applying machine learning libraries and basically everything else.

**Technologies:** Python, R

## Education

**2008-2012** BCs. in Intelligent Systems - Czech Technical University, Prague

As a final project I wrote MineCraft server in Scala and Akka

## Software Engineering Skills

- **Programming Languages**

  *Scala* - Lot of experience with typelevel stack (http4s, cats-effect, etc)
  *Python* - Used in past and for ad-hoc scripts etc.
  *Java* - Used in past and at University

- **Operations and Cloud**

  *Kubernetes, Helm* - maintenance and development of helm/kubernetes services
  *AWS, Terraform, Spinnaker* - as a user, not as administrator
  *Grafana, Datadog, Icinga, VictorOps* - as a user, not as administrator

- **Others**

  *Git, Bash*
  *Cassandra, Kafka, RabbitMQ, SQL Databases*

## Interests

- **Running, hiking, weight-lifting**
- **Rock climbing - teaching and practicing**
- **Investing and finance**

## Languages

- **Czech - native**
- **English - very good, successfully used in business setting**

## Others

- **Rock Climbing instructor**

  *Rock/Sport climbing instructor qualification by Czech rock climbing association*
  *3 years of teaching rock-climbing to beginners as a hobby*