

# Tomáš Heřman

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 **Birthday** 21<sup>st</sup> February 1989

 **Nationality** Czech

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 **GitHub** [github.com/tomasherman](https://github.com/tomasherman)

 **Languages** Czech: *Native*  
English: *Fluent*



## Open source

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

## Employment History

**Aug 2021 - Present** [Avast Software, Prague & Zurich](#)  
*Senior Software/Data engineer*

After [Omni project](#) was cancelled and my team dissolved, I joined a Big Data team. I was tasked with making various improvements to many of the existing components of the big data solution. Most notably, I participated on migration and modernisation of on-prem big data solution to GCP. In addition to programming and redesigning of old services, this included a lot of Ops work as well (setup of terraform, GKE, monitoring & alerting).

**Technologies:** Scala, Java, Kafka, Kubernetes, GCP, Terraform

**Aug 2019- Aug 2021** [Avast Software, Prague](#)  
*Team Lead, Senior Software engineer*

Promoted to lead a team of 3 (and later 6) backend-developers at [Omni project](#). In addition to Team Lead duties (1 on 1s, Sprint plannings, hiring (for my and other teams)), 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 making 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*

I worked on various services related to Avast AntiVirus and other supporting systems. In addition to coding, I played a big role in introducing (Scala) Functional Programming to other engineers. I (with few others) prepared many talks, libraries, workshops etc.

Some interesting projects I worked on:

- DNS proxy written in Netty & Scala
- System for scanning Android APKs for Avast partners
- High throughput, highly cost-sensitive websocket server for [Avast Omni](#) project

**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), weapon of choice  
*Java* - Used in past and at University  
*Python* - Used in past and for ad-hoc scripts etc.
- **Operations and Cloud**  
*Kubernetes, Helm* - maintenance and development of helm/kubernetes services  
*AWS, GCP, 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
- (Teaching) Rock climbing - 5+ years of teaching experience as an instructor
- Investing and finance