

# Tomáš Heřman

---

<b>Address</b>	Prague, Czech Republic	<b>Phone</b>	+420 728 466 416
<b>Date of Birth</b>	21 <sup>st</sup> February 1989	<b>Email</b>	tomas.herman@gmail.com
<b>Nationality</b>	Czech		

## Open source

**datadog4s** Library for easy monitoring of cats-effect based Scala applications with Datadog.

## 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 etc), I also spend a lot of time talking to Product about new features, improvements and ideas. I help design said features and make sure they get implemented on time and in adequate quality. I take 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 etc to introduce FP concepts/techniques to my colleagues. Some interesting projects I worked on:

- DNS proxy written in Netty
- System for scanning Android APKs from 3rd parties
- High throughput, highly cost-sensitive websocket server for Omni project

In addition to SW Engineer workload I've been a L1 on-call support 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 written a UI for the founder/thought leader to watch/control what the trader is doing. Eventually I became the lead for the platform. Eventually we moved to cryptocurrencies.

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

- 2013 - 2014** Spinoco, Prague, Czech Republic  
*Solution Designer*
- Worked as a full-stack 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 been on 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
- 2004-2008** General sciences - Masaryks high school of chemistry, Prague, CZ

## 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

### ■ Operations and Cloud

*Kubernetes, Helm* - maintenance and development of helm/kubernetes services  
*AWS, Terraform, Spinnaker* - user level experience  
*Grafana, Datadog, Icinga, VictorOps* - used to make sure the code behaves as it should

### ■ Others

*Git, Bash*  
*Cassandra, Kafka, RabbitMQ*

## Interests

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

## Others

### ■ Rock Climbing instructor

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