# My awesome journey with Open Source

Adam Sitnik

## About myself



### Senior Software Engineer & Team Leader

- Maintainer
  - BenchmarkDotNet (2 300+ stars on GitHub)
  - Awesome .NET Performance (720+ stars on GitHub)
- Contributor
  - Core CLR
  - CoreFx Lab
  - Exceptionless.Net, ImageProcessor, protobuff-net, SignalR, Autofac, ServiceStack.Redis, LinqOptimizer, ClrMD, MSOS

The History of Open Source

## You can make your own history!

## Open your eyes!



to me this was an eye-opening post

#### .NET/FRINGE/ @dotnetfringe

This post also explains why, even though Microsoft is hard core OSS these days, they're still not very present bit.ly/1gQCnGU

## What small startup did for .NET OSS to develop a single app?

- Added full CQL3 collisions support to FluentCasandra
- Invented Helios, a high performance server-side socket library
- Ported Akka to .NET
- Implemented Marmur3 and HyperLogLog algorithms in C#

## Are you using any OSS?



## Have you ever...

- Maintained OSS project?
- Implemented a new feature?
- Fixed a bug?
- Improved the performance?
- Improved the docs?
- Reported a bug? with a nice repro case?
- Or maybe introduced a bug?

## At this point of time

- I was anonymous .NET developer
- I knew I wanted to contribute to make a difference
- I had no idea how to start
- I did not know any contributors
- I wasn't even dreaming about speaking at the Big Conferences...
- Not to speak about drinking a beer with my Gurus!

## When your Guru starts a new project..



## My first contribution: what it was

- Build the benchmark in the Release mode
- Perform the Jit Warmup
- Cleanup the memory after every iteration
- One micro optimization

## Follow the coding standards (CONTRIBUTING.md)



joeduffy commented on src/Slice.cs in a97bb49 on 19 Jul 2015

Style nitpick, indentation looks off; maybe a tabs vs. spaces issue?



joeduffy commented on src/Slice.cs in a97bb49 on 19 Jul 2015

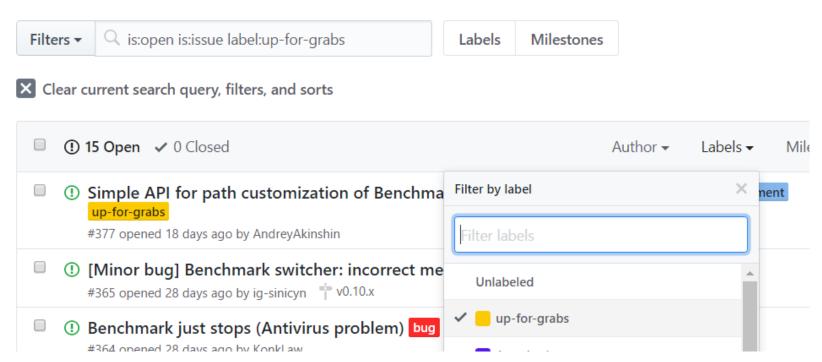
Style nitpick, errant spaces.

## You can get a code review from your Guru!!!

## Choose the right Project

- Look for something that excites you!
- Prefer tools that you are familiar with
- Make sure they are looking for help!
- Make sure it's active!
- Make sure you are ok with the license!

## How to grab an issue?



## Part of a daily job routine

#### Found a bug in OSS library?

- Report it!
- Provide a repro case!
- Is it blocking your job?
- If so, can you fix it?

#### Need new feature?

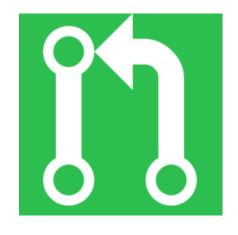
- The existing code base saved your company a LOT of time.
- So why don't you extend it?

#### Just do it!

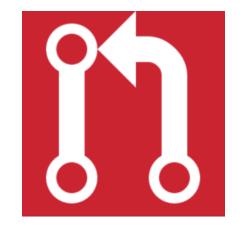
## Don't give up!



Ben Adams contributions to Kestrel HTTP Server (as of 2017-10-01 18:01)







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#### Use the tools that are free for the Contributors























## Believe in yourself

- How do you know if you are good or not?
- Would you like to change job?
- Fork a project
- Pick up an issue
- Just solve it!
- Create PR

## You get invited to speak at Conferences



Adam Sitnik <adam.sitnik@gmail.com>

#### You have been selected to speak at NDC Oslo 2017

2 messages

NDC Oslo <info@ndcoslo.com>

2 March 2017 at 16:26

Yes, You still get rejected;)

## Pair programming with the best



cesarbs on 28 Jan Member

@adamsitnik Would be glad to collaborate with you to get this more generalized and into BenchmarkDotNet





adamsitnik on 28 Jan

This week I am in Redmond for the MS LEAP, so we can even meet in person and talk about it;) btw were you able to run this auto-generated dll? When I tried similar approach (to execute



cesarbs on 30 Jan • edited Member

Awesome! I'll send you an email so we can arrange when and where to meet.

## Advantages for the employer

- You learn new things all the time
- You use new things at work to do better job
- You build a network which helps you when you are in need
- You can promote your company by doing great things in public



## Getting the write access to your favorite tool



Adam Sitnik <adam.sitnik@gmail.com>

#### AndreyAkinshin added you to BenchmarkDotNet

1 message

Andrey Akinshin <noreply@github.com>
To: Adam Sitnik <adam.sitnik@gmail.com>

20 January 2016 at 11:22

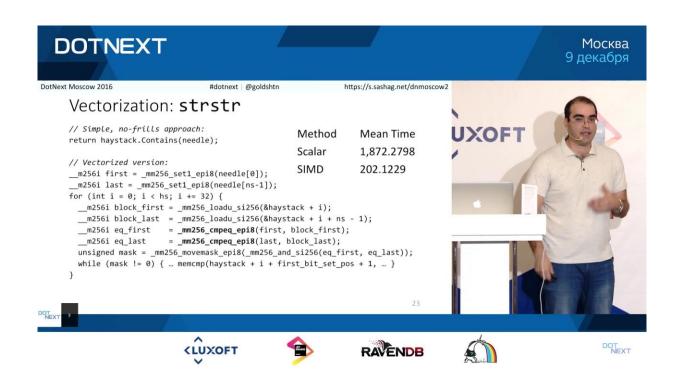
You can now push to this repository.

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View it on GitHub:

https://github.com/PerfDotNet/BenchmarkDotNet

## When Guru use the feature you implemented



## Summary

- Plan minimum: report well described bugs.
- Contribute to something exciting at least once.
- Contributing should be a part of your daily job routine.
- Everybody gets rejected, so will you.
- You can benefit a LOT!
- You can sky rocket your experience and knowledge!
- You are not going to get paid for it.

#### Sources

- The Profound Weakness of the .NET OSS Ecosystem
- Free Services & Tools for Open Source .NET Projects
- All Pull Requests by Ben Adams to Kestrel
- What it feels like to be an open-source maintainer
- up-for-grabs.net

## Questions?

Adam.Sitnik@powel.com

Slides: <a href="http://adamsitnik.com/files/NorwegianITNight.pdf">http://adamsitnik.com/files/NorwegianITNight.pdf</a>

## Thank You!