My story with Python and Open Source

Nicola Iarocci / @nicola iarocci
Who I am

a weirdo

Python by Night
I am the author and maintainer of a few Python open source projects: python-eve.org, python-cerberus.org, and more.

C# by Day
I am the author of Sofware Gestionali Amica, a line of accounting and invoicing applications for Italian small businesses. Check it out at http://gestionaleamica.com

Microsoft MVP
MongoDB Master
I also happen to be a Microsoft MVP for Visual Studio and Development Technologies and a MongoDB Master.

Communities
I run DevRomagna, a developers community, and CoderDojo Ravenna, a coding club for kids. http://devromagna.org

Speaker
At local and international conferences

Teacher and Consultant
Languages, methodologies, best practices, etc.
How I got into Python and Open Source
RESTful API for human beings

http://python-eve.org
Cerberus

Lightweight extensible data validation for Python

http://python-cerberus.org
eve
REST API framework designed for human beings

http://python-eve.org

Pinned repositories

- **eve**
  REST API framework designed for human beings
  - **Language**: Python
  - **Stars**: 5.1k
  - **Subscribers**: 627

- **cerberus**
  Lightweight, extensible data validation library for Python
  - **Language**: Python
  - **Stars**: 1.3k
  - **Subscribers**: 143

- **eve-demo**
  A fully functional REST Web API. Powered by Eve.
  - **Language**: Python
  - **Stars**: 213
  - **Subscribers**: 72

- **eve-swagger**
  Swagger extension for Eve-powered RESTful APIs
  - **Language**: Python
  - **Stars**: 99
  - **Subscribers**: 28

- **eve-sqalchemy**
  SQLAlchemy data layer for Eve-powered RESTful APIs
  - **Language**: Python
  - **Stars**: 174
  - **Subscribers**: 55

- **flask-sentinel**
  OAuth2 Server bundled as a Flask extension
  - **Language**: Python
  - **Stars**: 130
  - **Subscribers**: 31
Fattura Elettronica per le aziende e la Pubblica Amministrazione Italiana

http://fatturaelettronicaopensource.org
pros and cons
New Features for free
Fix sanitization of nested queries. #1091

Moschn commented on Dec 3, 2017

A query was not fully traversed in the sanitization. Therefore the blacklist for mongo queries could be bypassed, allowing for dangerous "$where" queries.

nicolaiarocci approved these changes on Dec 4, 2017

Excellent.
Hello Nicola,
I'd like to contribute to Eve project, so I started with walkthrough of the code and fixed a few typos in comments.
Regards
Martin
Would be nice to have a fluent API, whereas now we are just passing arguments to the GET method. I guess what I have in mind is something like `client.Get(url).Where(customer => customer.Name=='John').Sort(...)`.

That's going to be quite a lot of work, and I am not sure it is really worth it. Also, I don't have the time to work on this right now. Up for grabs!

Mongo driver for .NET implements such a thing, by the name of `Builders` or `DefinitionBuilder` (depending where you're reading).

Specifically the `FilterDefinitionBuilder` seems to do exactly as you suggest. Not really sure how we could leverage that for this project, but figured it might be helpful where someone does it.
Language & Cultural Barriers

in an international community communication can be a challenge, also a chance to learn
Maintenance

after the initial excitement maintenance can (and will) become a burden
Eve is an open source Python REST API framework designed for human beings. Cerberus is a lightweight data validation library for Python. Eve makes building and deploying RESTful services super-simple and yet, it provides a huge set of powerful features out of the box such as:

- Full range of CRUD operations, bulk insertions included
- Filtering, Sorting, Pagination, HATEOAS
- JSON and XML Rendering
- Conditional Requests
You need to get creative

TalkPython offers a course I recorded for them

(money!)
Consequences
Who I used to be
introvert code monkey, 1991-2012

C# by Day

I am the author of Sofware Gestionali Amica, a line of accounting and invoicing applications for Italian small businesses. Check it out at http://gestionaleamica.com
One Day
someone posted about Eve on Hacker News
Speaking started with presenting my open source projects at local and international conferences.
Consulting & Teaching was another *direct consequence* of my open source activity.
Communities

DevRomagna and CoderDojo Ravenna
Nicola Iarocci

Italy
Ravenna, RA

Software Craftsman

Biography

Nicola is the founder of CIR2000 where he leads the Amica project, an accounting and invoicing application for the Italian small businesses. He has 25 years of professional experience in the software engineering field. He is a coder at heart, author of some well known open source projects on both .NET and Python platforms. He is a MongoDB Master, a Microsoft MVP, a speaker at local and international conferences, and trainer. Nicola lives in Ravenna, Italy, where he runs the local CoderDojo, a coding club for kids, and DevRomagna, a developers users group.

Awards

speaking and open source then got me some nice rewards
MongoDB Masters

MongoDB Masters is an annual program run by MongoDB to recognize and empower leaders in the MongoDB community. Masters serve as ambassadors, leaders, educators, and experts, sharing their first-hand knowledge and experience. Masters complete MongoDB professional certification to demonstrate their expertise.

Awards

speaking and open source then got me some nice rewards
Learn new things every single day, and then share them

$ git diffc
diff --git a/README.md b/README.md
index 2fd9bc4..889c3dc 100644
--- a/README.md
+++ b/README.md
@@ -1 +1,2 @@
  TITLE
+test

$ git config --global alias.diffc 'diff --cached'
Networking
last but not least
Who I am

Python by Night
I am the author and maintainer of a few Python open source projects: python-eve.org, python-cerberus.org, and more.

C# by Day
I am the author of Software Gestionali Amica, a line of accounting and invoicing applications for Italian small businesses. Check it out at http://gestionaleamica.com

Microsoft MVP
MongoDB Master
I also happen to be a Microsoft MVP for Visual Studio and Development Technologies and a MongoDB Master.

Communities
I run DevRomagna, a developers community, and CoderDojo Ravenna, a coding club for kids. http://devromagna.org

Speaker
At local and international conferences

Trainer
Languages, methodologies, best practices, etc.
What was the first pull request you sent on GitHub?

nicolaiaroacci

**Minor fixes at the design documentation** #71
to schematics/schematics

nicolaiaroacci sent this pull request 6 years ago

Merged

Take it Easy

begin by contributing with a single, simple pull request
This is still waiting on proper test coverage. Are you still planning to add it?

nicolaiarocci commented 9 days ago

nicolaiarocci added this to the 0.8 milestone 9 days ago

Do Your Homework
most projects won’t accept code that is not covered by tests and documentation updates
Sometimes things don’t go as planned.

This pull request has been ignored for six months (and counting). It’s ok.
Cognitive Bias

contributor wanna-be is intimidated, yet there are a ton of projects out there

all striving for contributors
The truth is that there is absolutely no luck in becoming an OSS developer
You need dedication, will and grit. Along with a strong desire to learn new things.
The good news is that you can become an OSS developer too.
Get Started!
Check out these great resources

GitHub
https://guides.github.com/activities/hello-world/

First Timers Only
http://www.firsttimersonly.com

Up for grabs
http://up-for-grabs.net/#/

How to Contribute to Open Source
https://opensource.guide/how-to-contribute/
How to install Python support in Visual Studio on Windows

To install Python support for Visual Studio (also known as PyDev or PTVS), follow the instructions in the section that matches your version of Visual Studio:

- Visual Studio 2017
- Visual Studio 2015
- Visual Studio 2013 and earlier

For Visual Studio 2015 and earlier you also need to separately install a Python interpreter of your choice (Python 3.5 and earlier; 3.6 is not supported and generates the message "Unsupported Python version 3.6"). The same page also contains instructions for adding an existing Python interpreter to

Start from your toolchain
opportunities are probably sitting right in front of you
Thank You!
Send feedback or get in touch at:

@nicolaiarocci  nicolaiarocci.com  nicola@nicolaiarocci.com