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Mahdi Haghverdi

Back-end / Junior Developer

Persian articles on *virgool* English articles on *medium* github.com/mahdihaghverdi

4-year Python developer spent time in learning Python deep and well. Interested in PEPs and How things work in CPython. Regular writer. Committed in learning continuously and staying up-to-date with latest technologies.

SKILLS

Tools and Languages	Python	FastAPI	PostgreSQ	L SQL	Alchemy	Docker	EX
	Git & GitHub Actions		Unit-Test	PyTest	Poetry	RESTful	Agile

PROJECTS

FastBlog — link

 A simple RESTfull blog API, with the CRUD on blog posts and support a high performance comment management system written in Python with FastAPI and PostgreSQL.

postfixcalc — link

 A library which provides the API to get an arithmatic expression as str and parse and evaluate that safely using postfix method.

plumacalc — link

• A django app which uses postfixcalc to create a web based, self hosted calculator.

listappend — link

- Python implementation of PyListObject and its append mechanism for the article:
 - How Append Works (Persian)
 - How Append Works (English)

timetp — link

- A tokenizer and a parser written based on a DFA
- For full explanation read the article of this project at Let's write a tokenizer and a parser

OPEN SOURCE CONTRIBUTION

Aggify — link

Aggify is a Python library to generate MongoDB aggregation pipelines.

- Submit 9 pull requests which got merged into the main branch link
- Implement one pipeline stage: \$out Pull Request #13
- Make the test coverage of Aggify 100% Pull Request #42
- Fixed issues: #16 and #18
- Aggify's test CI/CD in GitHub Actions now runs Python 3.8, 3.9, 3.10, 3.11 and 3.12 Pull Request #43

ARTICLES

Timsort Algorithm Explained — link

• Full coverage and explanation for timsort algorithm.

Let's Write a Tokenozer and Parser — link

 A comprehensice walk through of studing the theory of automata, writing a RegEx, drawing a DFA and implementing a tokenizer and a parser out of them.

What's New in Python 3.12 — link

 Point to point, PEP to PEP and issue to issue of What's new in Python 3.12 stable release.

Deep Dive Into Object and Types in the C Layer of CPython

- How objects and types are implemented in CPython?
- written in Persian & English

How list.append Works In CPython's C Layer?

- How does CPython do an list.append exactly?
- written in Persian & English

Python is TOO Fast — link

• Is Python fast or slow? Let's have a discussion.

Python asyncio And TaskGroups — link

 Python asyncio module has a new type (from 3.11) called TaskGroup. Let's see why it was important to have it in stdlib.

Python Standard Library vs. PyPI — link

How Python stdlib differs from PyPI?

Python, A Language For Companies Seeking High Performance — link

 Should the High-tech companies and startups use Python for their product or not?

CPython Will Be 5x Times Faster — link

 How faster CPython team will improve the performance of Python?

More in here: https://virgool.io/@liewpl/