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Mahdi Haghverdi

Back-end / Junior Developer

Persian articles on [virgool](#)

English articles on [medium](#)

github.com/mahdihaghverdi

Write the fucking profile

SKILLS

Tools and Languages

Python

FastAPI

PostgreSQL

SQLAlchemy

Docker

LaTeX

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 arithmetic 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](#)

- Lorem ipsum dolor sit amet, consectetur adipiscing elit.

ARTICLES

Timsort Algorithm Explained — [link](#)

- Full coverage and explanation for `timsort` algorithm.

Let's Write a Tokenizer and Parser — [link](#)

- A comprehensice walk through of studying 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/>

EDUCATION

Undergraduate Computer Engineering Student

University of Isfahan