Building real-time apps for web, mobile & desktop in Python

Attila Toth Developer Advocate at ScyllaDB

Attila Toth



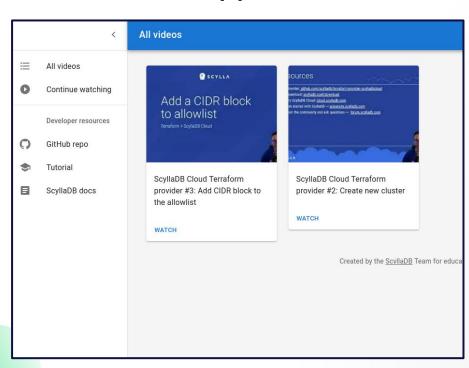
- Developer advocate at ScyllaDB
- Working as a software engineer / dev advocate for 7+ years
- + Lives in Budapest, Hungary

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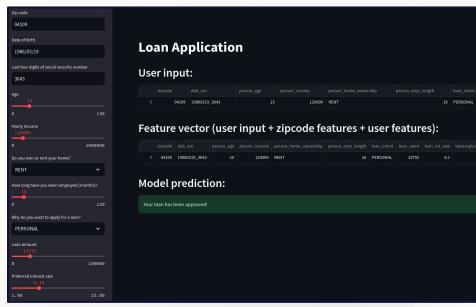
Context



Real-time apps

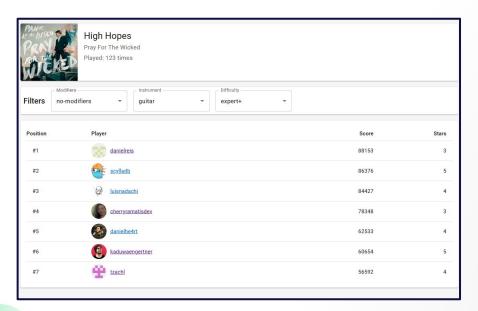


Machine learning apps



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Gaming apps



APIs







Streamlit



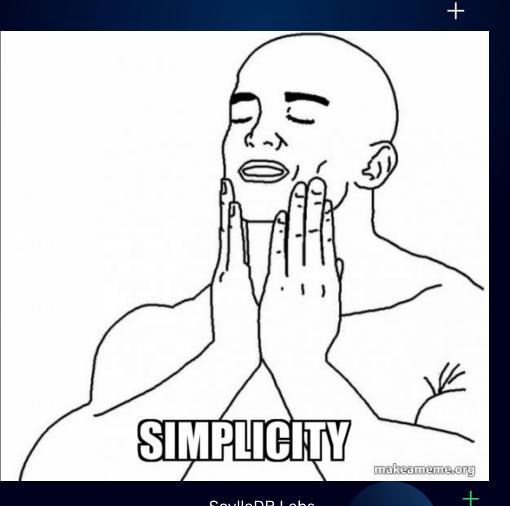
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ScyllaDB Labs

Write JavaScript code





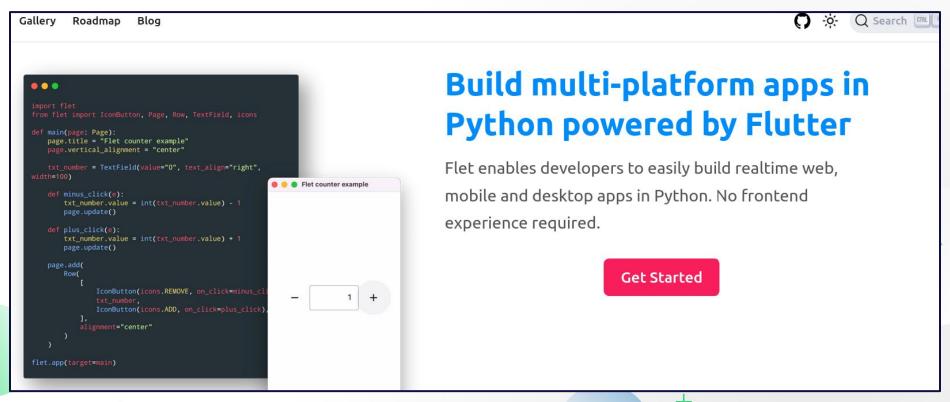
Flet

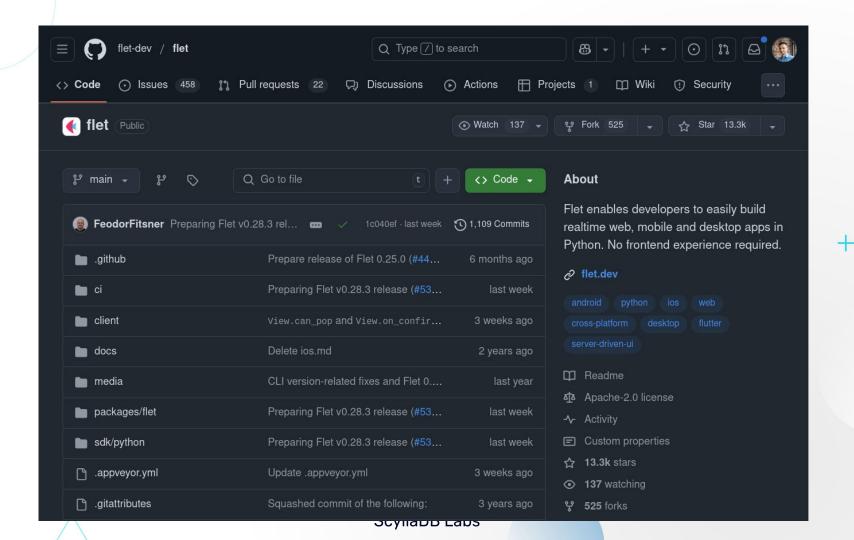
What is Flet?

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What is Flet?





What is Flutter?

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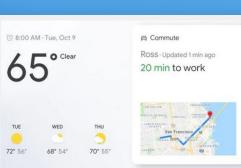
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Build for any screen











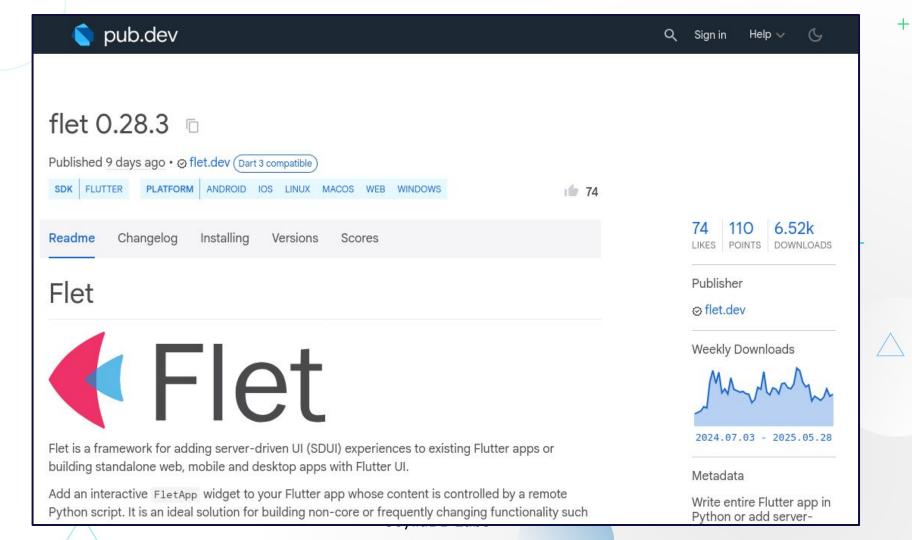
What is Flutter?

- OSS cross-platform framework
- Uses Dart programming language
- Backed by Google
- Has a big community



Flutter

```
import 'package:english_words/english_words.dart';
import 'package:flutter/material.dart';
import 'package:provider/provider.dart';
void main() {
  runApp(MyApp());
class MyApp extends StatelessWidget {
  const MyApp({super.key});
 @override
  Widget build(BuildContext context) {
    return ChangeNotifierProvider(
      create: (context) => MyAppState(),
      child: MaterialApp(
        title: 'Namer App',
        theme: ThemeData(
          colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepOrange),
        ),
        home: MyHomePage(),
```

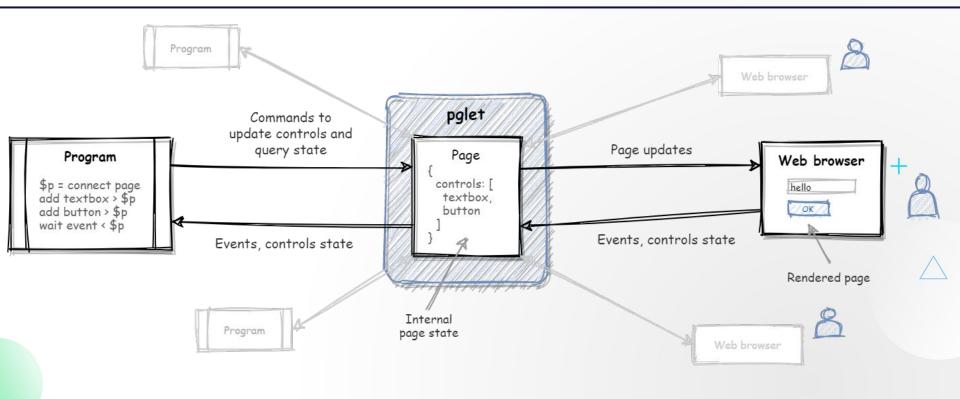


How Flet works

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How Flet works?



Why I like using Flet

- No frontend experience required
- Simple, quick development and packaging
- Easy to create interactive apps (SPAs)
- Powered by Flutter
- Hot-reload (on mobile device as well)

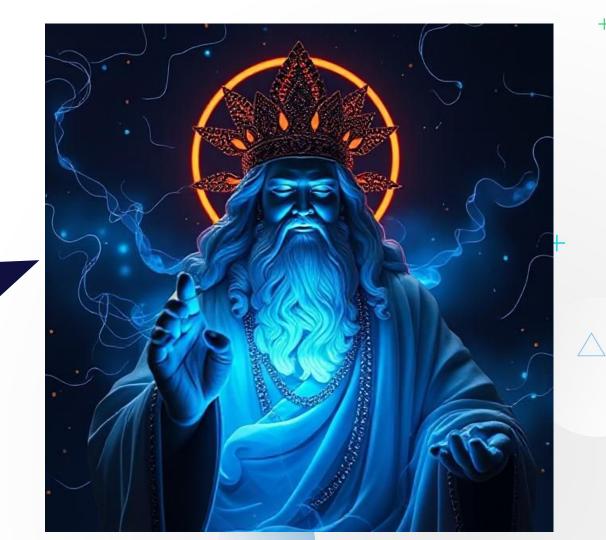
Get started with Flet!+



DEMO God

Prompt:

"Create an image of a God who governs the success or failure of live software demos"



Summary

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Why use Flet?

- If you don't want to deal with frontend code
- Allows you to launch QUICKLY
- Simple, yet flexible
- Uses Flutter (Backed by Google and has an active community)

Why NOT use Flet?

- No direct access to Flutter widgets
- Platform specific requirements can be tricky
 (Pyjnius and Pyobjus are now available, so maybe not anymore?)
- If you need more complex UI

Grazie mille!

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Slides (and more):
AttilaToth.dev/PyConItaly

