

FLUTTER

“NEW FRAMEWORK, NEW OPPORTUNITY”





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ONE

Senior Software Engineer at 1MG

Senior Software Engineer at BeGroup

Senior Software Engineer at Sendo

Admin Flutter Community VietNam



Today - Today



What is Flutter?



What is Flutter?

Flutter là một **SDK** phát triển ứng dụng di động nguồn mở được tạo ra bởi **Google**. Nó được sử dụng để phát triển ứng dụng cho **Android** và **iOS**, cũng là phương thức chính để tạo ứng dụng cho **Google Fuchsia** - [wikipedia](#)



What is Flutter?

Made by 

Flutter is Google's UI toolkit for building beautiful, natively compiled applications for [mobile](#), [web](#), and [desktop](#) from a single codebase.

[Flutter.dev](https://flutter.dev)



Why Flutter?



What is Flutter?



Fast Development

Paint your app to life in milliseconds with Stateful Hot Reload. Use a rich set of fully-customizable widgets to build native interfaces in minutes.



Expressive and Flexible UI

Quickly ship features with a focus on native end-user experiences. Layered architecture allows for full customization, which results in incredibly fast rendering and expressive and flexible designs.

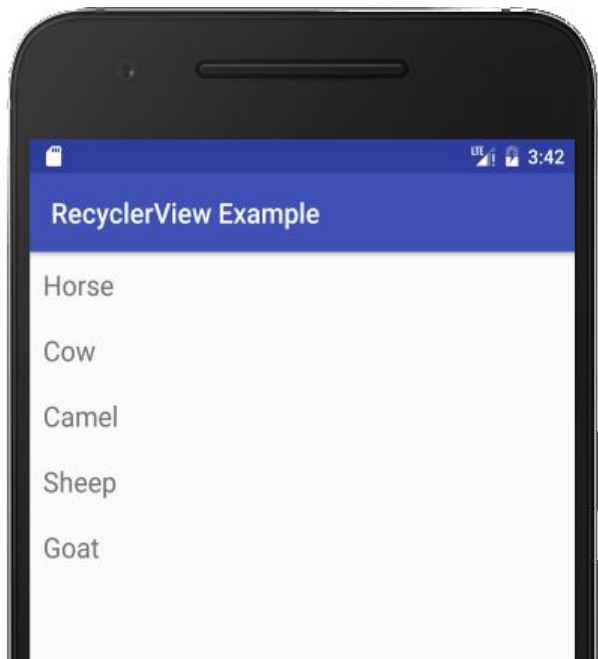


Native Performance

Flutter's widgets incorporate all critical platform differences such as scrolling, navigation, icons and fonts, and your Flutter code is compiled to native ARM machine code using [Dart's native compilers](#).



Fast Dev-ment

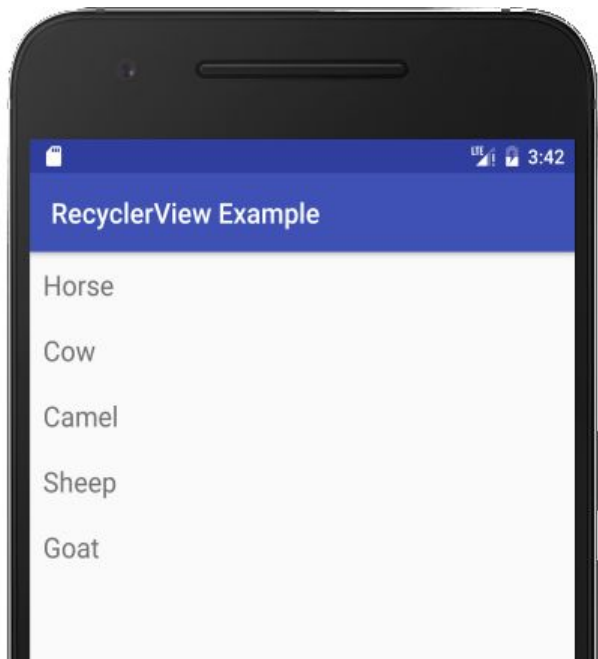


```
implementation 'com.android.support:appcompat-v7:28.0.0'  
implementation 'com.android.support:recyclerview-v7:28.0.0'
```

```
<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout  
    xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent">  
  
    <android.support.v7.widget.RecyclerView  
        android:id="@+id/rvAnimals"  
        android:layout_width="match_parent"  
        android:layout_height="match_parent"/>  
  
</RelativeLayout>
```

```
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout  
    xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:orientation="horizontal"  
    android:padding="10dp">  
  
    <TextView  
        android:id="@+id/tvAnimalName"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:textSize="20sp"/>  
  
</LinearLayout>
```

Fast Dev-ment



```
public class MyRecyclerViewAdapter extends RecyclerView.Adapter<MyRecyclerViewAdapter.ViewHolder> {

    private List<String> mData;
    private LayoutInflater mInflater;
    private ItemClickListener mClickListener;

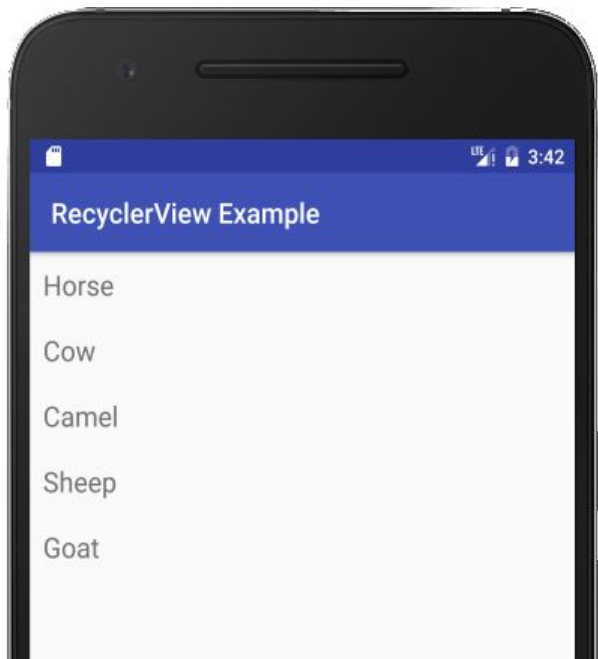
    // data is passed into the constructor
    MyRecyclerViewAdapter(Context context, List<String> data) {
        this.mInflater = LayoutInflater.from(context);
        this.mData = data;
    }

    // inflates the row layout from xml when needed
    @Override
    public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
        View view = mInflater.inflate(R.layout.recyclerview_row, parent, false);
        return new ViewHolder(view);
    }

    // binds the data to the TextView in each row
    @Override
    public void onBindViewHolder(ViewHolder holder, int position) {
        String animal = mData.get(position);
        holder.myTextView.setText(animal);
    }

    // total number of rows
    @Override
    public int getItemCount() {
        return mData.size();
    }
}
```

Fast Dev-ment



```
public class MainActivity extends AppCompatActivity implements MyRecyclerViewAdapter

    MyRecyclerViewAdapter adapter;

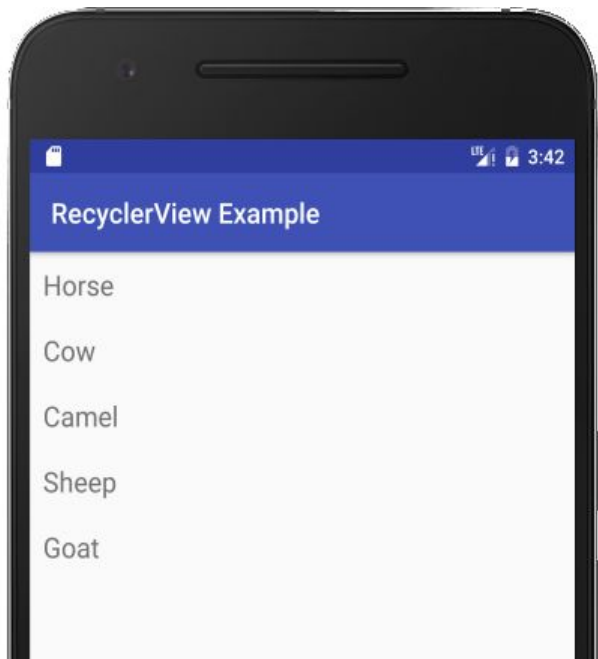
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        // data to populate the RecyclerView with
        ArrayList<String> animalNames = new ArrayList<>();
        animalNames.add("Horse");
        animalNames.add("Cow");
        animalNames.add("Camel");
        animalNames.add("Sheep");
        animalNames.add("Goat");

        // set up the RecyclerView
        RecyclerView recyclerView = findViewById(R.id.rvAnimals);
        recyclerView.setLayoutManager(new LinearLayoutManager(this));
        adapter = new MyRecyclerViewAdapter(this, animalNames);
        adapter.setOnClickListener(this);
        recyclerView.setAdapter(adapter);
    }

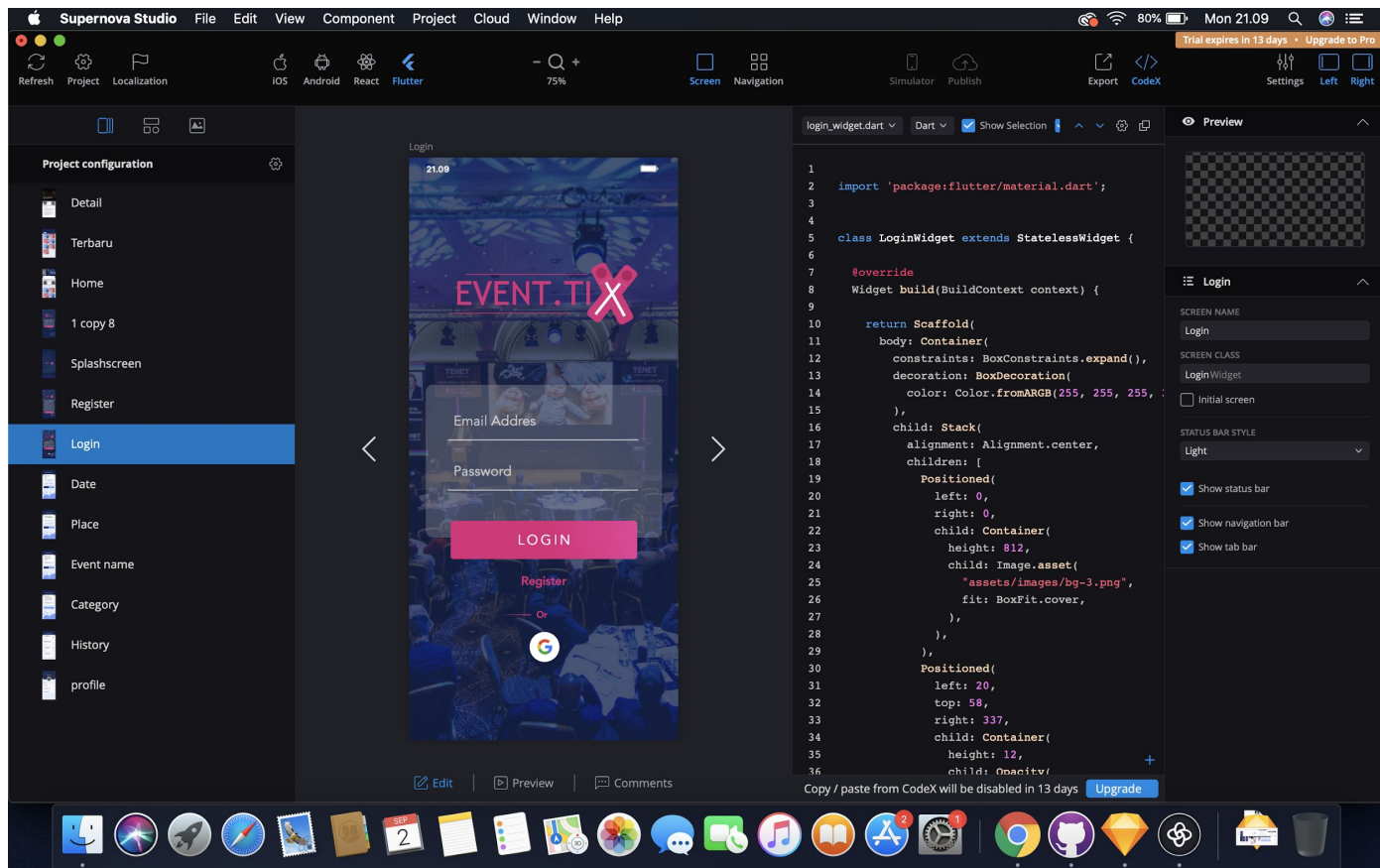
    @Override
    public void onItemClick(View view, int position) {
        Toast.makeText(this, "You clicked " + adapter.getItem(position) + " on row
    }
}
```

Fast Dev-ment

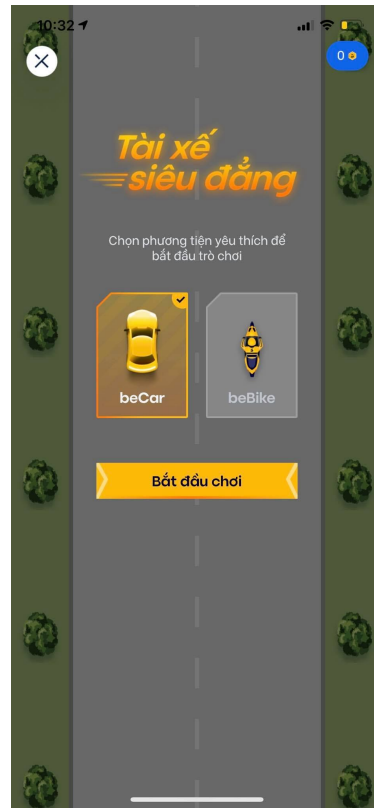
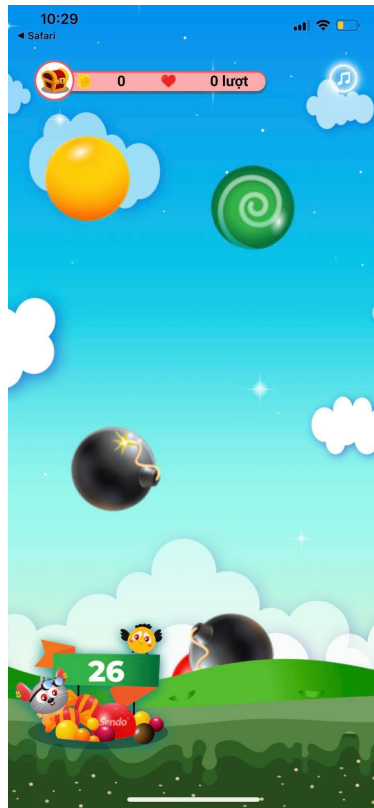


```
class _MyHomePageState extends State<MyHomePage> {  
  List<String> listName = List();  
  
  @override  
  void initState() {  
    listName.add('a');  
    listName.add('b');  
    listName.add('c');  
    listName.add('d');  
  
    super.initState();  
  }  
  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      appBar: AppBar(  
        title: Text(widget.title),  
      ), // AppBar  
      body: Center(  
        child: ListView.builder(  
          itemBuilder: (ctx, index) {  
            return Text(listName[index]);  
          },  
          itemCount: listName.length), // ListView.builder  
        )); // Center, Scaffold  
  }  
}
```

Fast Dev-ment



Expressive, beautiful Uis



Native performance

Why Flutter?



GitHub: Flutter - 2017 - 2019



GitHub: React Native - 2015 - 2019

Why Flutter?

15.000

Number of Flutter-dependent packages since the 1.0 release

Why Flutter?



Why Flutter?

#1 Flutter for Web Apps

As mentioned above, the Flutter community is working on its improvement. There is a project named the Hummingbird. If everything goes according to the plan, the moment is not far when the Android and iOS app development will be available using a single codebase.

#2 Flutter for Desktop Apps

Other than the mobile apps, the community focus is also on making desktop compatible Flutter apps. This way the developers will be able to develop Flutter apps for different OS likewise macOS, Linux, and Windows. Or the minor changes to the current apps make them compatible with the desktop platform.

#3 Flutter for Embedded

Besides this, we can witness more stable innovations from the Flutter community as they are working dedicatedly to take the technology to the next level. An advanced IoT technology embedded in this framework can be expected.



Showcase

Showcase



Tencent 腾讯

Tencent uses Flutter throughout the company for several apps including AI Teacher, Now Live, K12, Mr. Translator, QiDian, and DingDang.

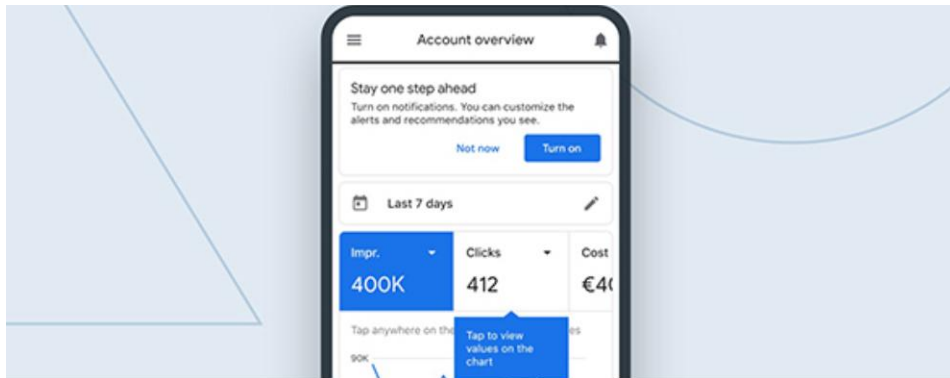


Showcase



Google Assistant

Flutter helps power an ever-growing number of Google Assistant apps.



Google Ads

The Google Ads app helps users manage, optimize and track ad campaigns all from the convenience of an android device.



Showcase



Flutter helped Grab build the merchant app for its fast-growing food delivery business.





be - Ứng dụng gọi xe Việt

be Group JSC Bản đồ và dẫn đường

★★★★★ 33.007

3+

Thêm vào danh sách mong muốn

Cài đặt

ShowCase



ShowCase



Flutter helped bring a new app for the world's biggest online marketplace to life.





Sendo: Black Friday Sale Số Đỏ

Sendo Technology JSC Mua sắm

★★★★☆ 365.182 👤

3+



Thêm vào danh sách mong muốn

Cài đặt

ShowCase



ShowCase



Home Credit Vietnam

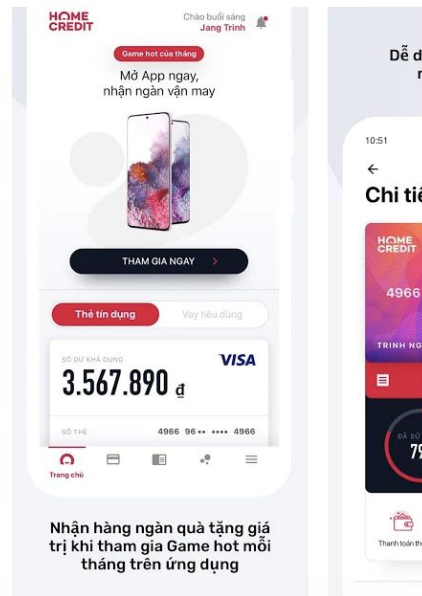
Home Credit Viet Nam Tài chính

★★★★★ 12.242

3+

Thêm vào danh sách mong muốn

Cài đặt



 Flutter



Manabie - App học tập tốt nhất

Manabie Giáo dục

★★★★★ 1.179

3+



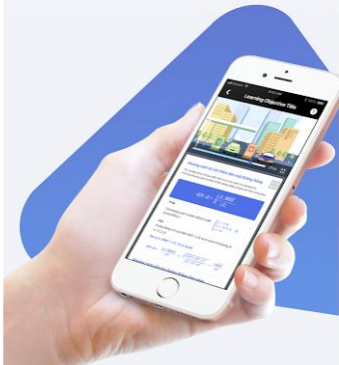
Thêm vào danh sách mong muốn

Cài đặt

ShowCase

Điểm thi được cải thiện

Ôn lại kiến thức ở trường để nắm vững các khái niệm then chốt chỉ với video bài giảng 3 phút
Nhờ đó, bạn sẽ cải thiện điểm số ở trường trong một khoảng thời gian ngắn



Đổ vào trường đại học trong mơ

Quản lý thời gian chỉ còn là chuyện nhỏ với sự hướng dẫn từ các cố vấn học tập và gia sư của Manabie! Học làm sao để vừa đổ đại học lại vẫn tham gia được hoạt động ngoại khóa!



Tài liệu học chất lượng cao



Kế hoạch cá nhân



ShowCase

Join the growing list of organizations working with Flutter.

Google

GROUPON

Alibaba Group
阿里巴巴集团

Capital One

Tencent 腾讯

Square

ebay



DREAM11

SONOS

ny bank

EMAAR



An Opportunity

27 flutter jobs in Vietnam

An opportunity



Mobile Dev (React Native, Flutter)

Hot

Sign in to view ▶

Ha Noi

React Native

Flutter

JavaScript

4h



Mobile Dev (Android, Flutter, Kotlin)

Hot

Sign in to view ▶

Ho Chi Minh

Android

Flutter

Kotlin

1d



Leader Mobile Dev (Flutter/React Native)

Hot

Sign in to view ▶

Ho Chi Minh

React Native

Flutter

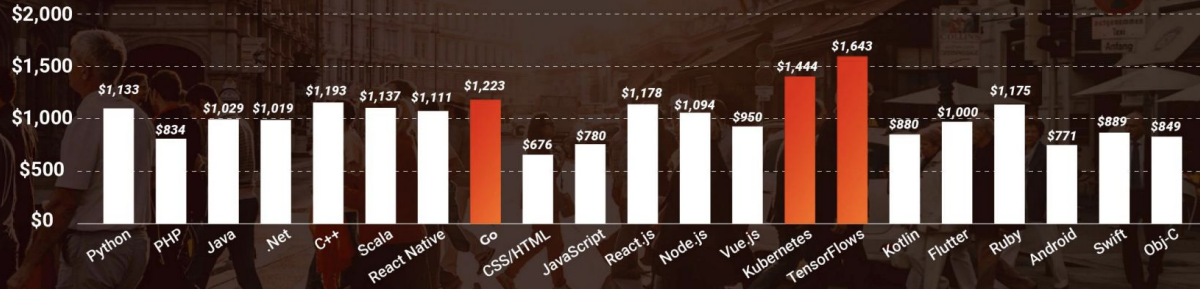
JavaScript

1d

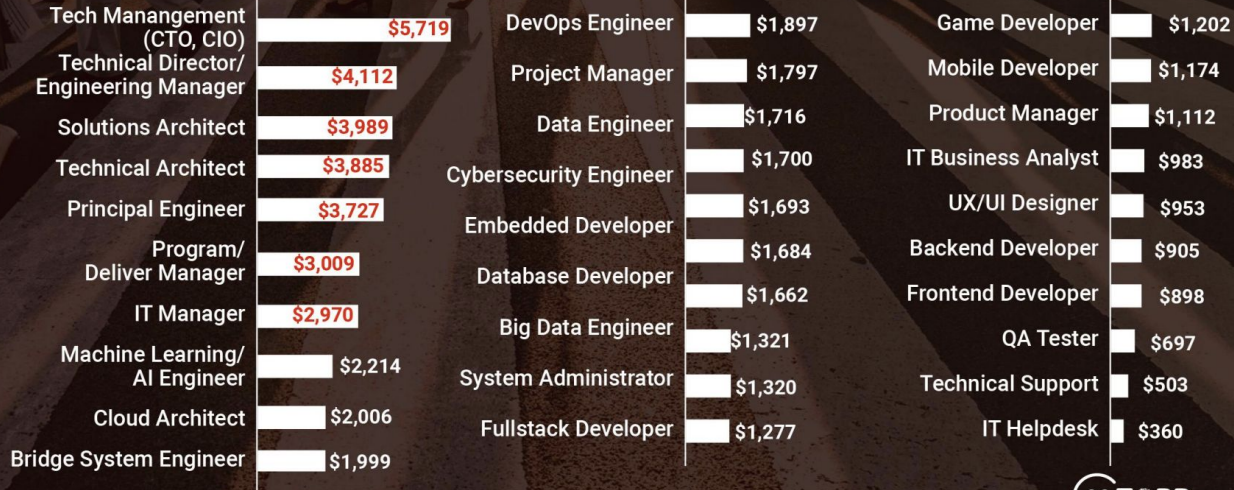


MỨC LƯƠNG CÁC CÔNG NGHỆ LẬP TRÌNH

VIETNAM
IT LANDSCAPE 2020



MỨC LƯƠNG CÁC VỊ TRÍ LẬP TRÌNH



An opportunity

Q/A