
Making a transition into tech: mobile development for Android

💃💻 Women Techmakers Berlin
💃💻 GDG Berlin Android



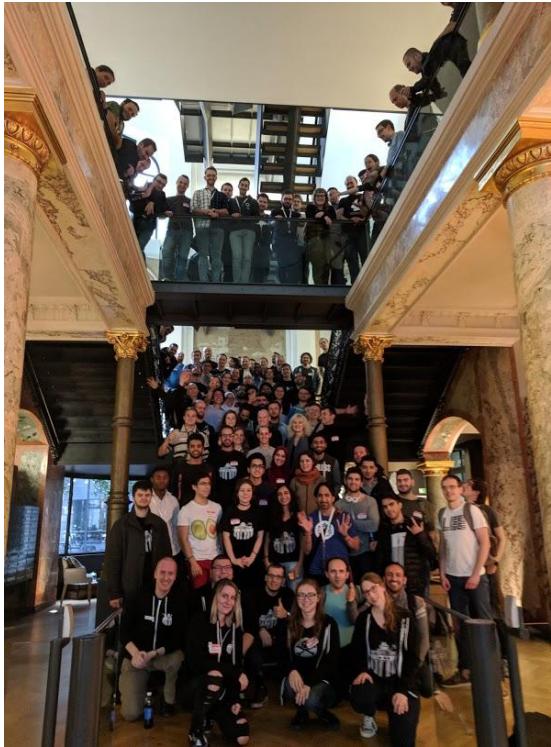
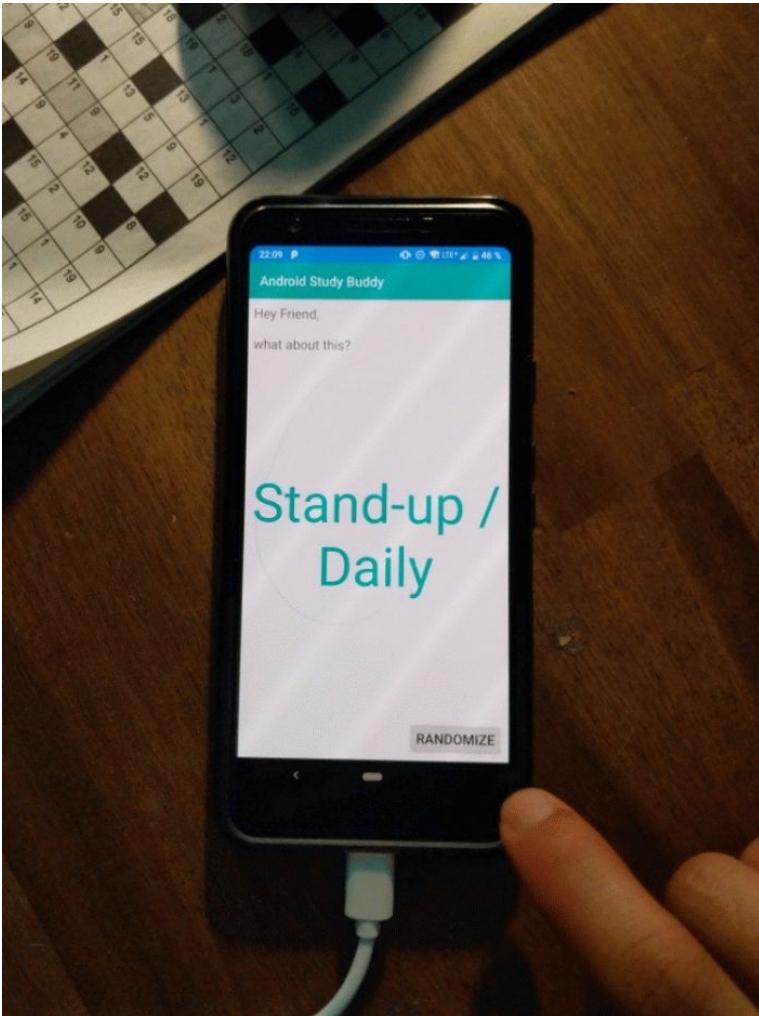
Code of conduct



- Safe space to ask questions.
- We are all unpaid volunteers, we try to keep the events open and inclusive
- Be excellent and respectful to each other.
- Report to one of Milos or Anna



https://github.com/WTMBerlin/WTMBApp/blob/master/CODE_OF_CONDUCT.md



Many thanks to:
Emma and Olha who
helped with the setup,
and to all unpaid
volunteers who helped
to create the course:
Mario, Louis, Alisen,
Aman, Milos, Hasan,
JB Lorenzo, Akarsh,
Ash, Alicja, Victoria
and Auras!

Kotlin



Community members who work as software developers without a degree in CS were previously working as:

- -
 -
 -
 -
 -
 -
 -
 - ...
- 

↻ Antonio Roa-Valverde hat retweetet

 **Brian P. Hogan**
@bphogan

I've hired a few people in my time.

I've never been disappointed by hiring someone who is less technical but is a great human who cares for others.

I can teach tech pretty easily.

But boy have I seen people who are strong technical people with toxic attitudes destroy a team.

[Tweet übersetzen](#)

8:23 nachm. · 15. Sep. 2019 · Twitter for iPhone

3:34 526 926 •

← Tweet

♥ Kate Efimova and Erin liked

 **Kara Luton**
@karaluton

I've officially been a software engineer for longer than I was a music publicist 😳

Never did I think I'd end up in this career path but I'm so grateful that I'm here.

3:54 PM · 13 Sep 19 · Twitter Web App

3 Retweets 97 Likes

 **Ezell Frazier @_Ezell_** · 23h
Replying to @karaluton
How did you take up the software engineering path?

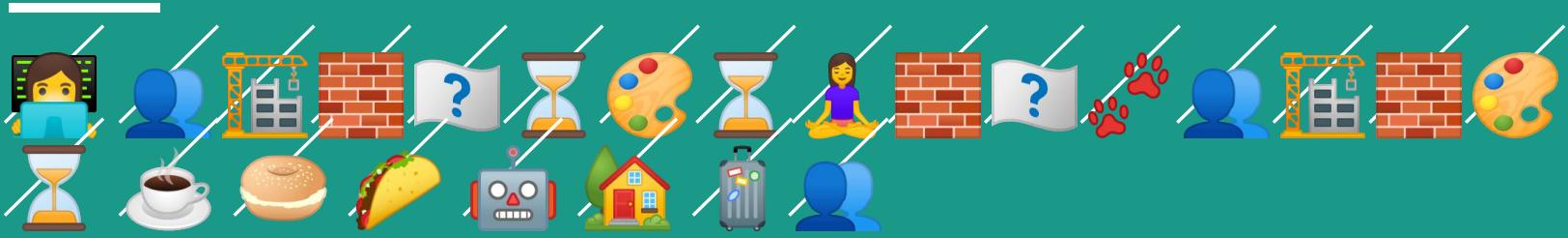
 **Kara Luton** @karaluton · 23h
I took a break out of working in music PR to...

Tweet your reply

@wtm_berlin



Life as a developer



Life as a developer

..... developer job description:



- Communication skills Three blue human head icons with speech bubbles.
- Problem solving skills Two building icons with scaffolding.
- Programming skills Two red rectangular block icons.
- Git - code versioning A red block icon next to a question mark icon.
- Practical experience // document your progress, work on portfolio! Two red rectangular block icons.
- Other skills // it is great when you bring a unique experience and expertise to a table! Four icons representing different skills: a building, a brick wall, a hourglass, and a paint palette.

What do devs do?

- Work with Product Owners, Engineering Managers, designers and other devs 
- **Solution oriented approach** - identify a minimum working prototype and improve it gradually 
- Technology ages fast, some languages are **slightly changing on a monthly basis**. --> the work relies massively on working against the **aging code** that is sometimes turning into a **legacy code**. 
- There will be . Devs protect against possible errors by writing **unit tests and integration tests**.

```
class Greeter {  
    var name: String = "World"  
  
    // greet the next person  
    fun greet(newName: String) {  
        name = newName  
        println("Hello, $name!")  
    }  
}
```





Where do I start? Proper attitude 😎🚀

- Getting out of the comfort zone 🦷
- Accept working without advanced or even basic knowledge on the subject 🧟⛳
- Appreciate feedback about your code and work. Applying changes improves your skills and quality of the project 🤝
- Ask for help! Take time to formulate your question clearly.
- Don't apologize when you don't know something
- Don't overapologize much when you made a mistake, focus on avoiding it in the future
- Keep your attention on the search for solution.



Learning to code

- Good code = structure, consistency, readability, performance..
- Aim for a **regular practice** - it gets easier to retrieve knowledge.
- **Join a coding group, find a coding buddy**
- Try out different sources - articles, books, podcasts, tutorials, videos
- Coding challenges
- Hackathons

Learning resources



<https://try.kotlinlang.org/>

Udacity.com

Udemy.com

Codecademy.com

Coursera.com

https://www.droidcon.com/conferences/Conference_Videos

...



@wtm_berlin



android how to click button

android click button

android button

how can i perform click button android

android button tutorial

Doctors: Googling stuff online does not make you a doctor.

Programmers:





Products Customers Use cases

[android]

Home

PUBLIC

Stack Overflow

Tags

Users

Job Board

TEAMS

What's this?

Q&A for Work

Questions tagged [android]

Android is Google's mobile operating system, used for programming Automobiles, TVs, Wear, Glass, IoT). For topics related to Android, activity, android-adapter, and etc. For questions other than development framework, use this link: <https://android.stackexchange.com>.

[Learn more...](#) [Top users](#) [Synonyms \(7\)](#) [android jobs](#)

1,219,253 questions

Newest Active

0 onAccessibilityEvent not being called

I have an Accessibility service and catching Accessibility function is not getting called after a certain period of time

0 answers
java android accessibilityservice

5 views

0 Reading an image file from device storage and base64 in Flutter

I'm trying to read file from a known path get base64 string broken. This happens only in flutter code. I did try doing

0 answers
android image flutter tobase64string

5 views

0 Google Map not loading specifically in Android

I'm trying to load google map with cluster, on android 6.0 it loads. in other platforms its working fine, ie nougat, Oreo

0 answers
android google-maps android-6.0-marshmallow

My eyes on StackOverflow

Using `async` and `await` does not make your whole program asynchronous. In those particular asynchronous environments (like android), `async` is synchronous logic that makes writing promises easier.

17

We cannot handle errors in `async`. The code that calls the asynchronous function must treat it as a function that returns a promise. (This only describes what the code that is calling the `async` function is itself; an `async` function in which case it can be `await`ed.)

✓

So if we're an `async` gets translated into a `Promise`, repetition. You can't await it in `async`, because it's for the whole reason that the `async` exists. In order to handle the error in `Promise`, you need to either return a `Promise` or `Promise.all` or `Promise.race`. If you're using an asynchronous function in `async`, then all you do is this because you can't await or `await` on `Promise` additional `Promise`s.

You often see them to be different from an `async` function using the normal `Promise.all` method or with the second argument to `Promise.all`:

```
getNewTokens('no-such-refresh-token', 1)
  .then(function(tokens) {
    console.log(tokens);
  }, function(error) {
    console.log(error.message);
});
```



I would like to understand the `as` or `isinstanceof` and `instanceof` way to handle errors using `try/catch`.

8

```
const value = await asyncFunction().catch(err => new Error(err))
if (value instanceof Error) return res.status(500).send('There was an error doing something')
```

By adding the `.catch()` method, which returns an `Object`. Then assigning it to the `value` variable, we can be sure that some value will be present in our variable. The only additional line of code necessary is the `if` statement to test if the value is an instance of `Error`. If it was caught by an `Error`, it will instance to an `Object`. Since code inside the `if` block, will be triggered only when an `Error` occurs. So this code will only run when there is an error. And if no `Error` occurs, this part of the code will not run. This prevents us from running any dangerous code in a block where we don't need it.

@wtm_berlin

```
class Greeter {  
    var name: String = "World"  
  
    // greet the next person  
    fun greet(newName: String) {  
        name = newName  
        println("Hello, $name!")  
    }  
}
```



WTM Berlin

Anna [N]

Navigation < >

Threads

Channels

- # accessibility
- android-cats
- # android-study-jam
- angular-workshop
- # bafyc-workshop
- cfp-event
- # conferences
- event-with-talentio
- # fireside-chats
- # general**
- google-assistant
- # hostingwtm
- iwd-2019
- # js-crash-course
- ml-event-for-wtmb
- # public-speaking-event
- # random
- scholarships-for-wtm
- wtm-1aim-gmbh
- wtm-checkout
- wtm-lieferando
- wtm-medici-living
- # wtm-volunteers
- wtm-app
- wtmb-organizers-chats
- ios-study-jam
- # ios-study-jam-2018
- # jobs

#general

☆ 1.212 | ♀ 2 | All our events: <https://www.meetup.com/Women-Techmakers-Berlin/events/calendar>

Montag, 9. September

3 1

2 Antworten Letzte Antwort vor 5 Tagen

chaosmonster 17:50 Uhr

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Donnerstag, 12. September

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<https://nextcloud.com/blog/the-schedule-for-nextcloud-conference-2019-is-here/>

Nextcloud

The schedule for Nextcloud conference 2019 is here! - Nextcloud

Nextcloud is the most deployed self-hosted file share and collaboration platform on the web. Access & collaborate across your devices. You stay in control over your data! (797 kB) ▾



3

Nachricht an #general

Suchfunktion

7 Upda



Women Techmakers
Berlin



@wtm_berlin

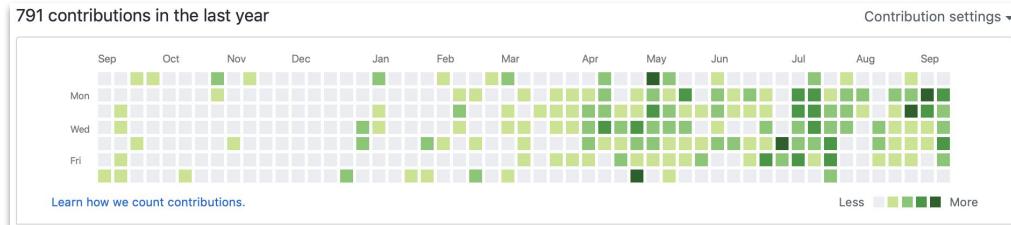
GitHub, GitLab & other version control systems



Dev tipp: Track your progress regardless of the learning source!

<https://github.com/WTMBerlin/WTMBApp>

791 contributions in the last year



47 contributions in 2016



249 contributions in 2017



60 contributions in 2018





Life as an Android developer

..... Android Developer job description:

- (Standard job descriptions)
- Familiar with Android Studio
- Familiar with Kotlin and/or Java



The screenshot shows the Android Studio interface with the following components:

- Project Structure:** On the left, the project tree shows the main module with Application, manifests, Java, and res folders.
- Code Editor:** The main editor window displays the XML code for `image_grid.xml`. It includes a yellow lightbulb icon indicating a suggestion or error.
- Preview:** A preview window on the right shows a 2x4 grid of images from the XML layout.
- Timeline:** At the bottom, the Android Profiler timeline shows activity transitions and system events.
- Metrics:** Below the timeline, CPU, Memory, and Network usage are tracked over time.

@wtm_berlin



```
class VeryLongNameOfYourClass {  
    var longNameOfVariable: String = "String is a primitive  
data type, like Integer and Boolean."  
}
```



Activities Android Studio Canary ▾ Thu Sep 12, 21:11:59

Sample [~/Desktop/git/Sample] - .../app/src/main/java/com/example/sample/MainActivity.kt [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ple app src main java com example sample MainActivity app Nexus 5 API 28 ▾

1: Project

Android app manifests java com.example.sample MainActivity com.example.sample (androidTest) com.example.sample (test) java (generated) res Gradle Scripts

Resource Manager

Layout Captures

Build: Build Output Sync

> Task :app:checkDebugManifest UP-TO-DATE
> Task :app:compileDebugAidl NO-SOURCE
> Task :app:compileDebugRenderscript NO-SOURCE
> Task :app:generateDebugBuildConfig UP-TO-DATE
> Task :app:prepareLintJar UP-TO-DATE
> Task :app:prepareLintJarForPublish UP-TO-DATE
> Task :app:generateDebugSources UP-TO-DATE

BUILD SUCCESSFUL in 0s
4 actionable tasks: 4 up-to-date

6: Logcat TODO Terminal Build

IDE and Plugin Updates: The following component is ready to update: Android SDK Platform-Tools (3 minutes ago)

Event Log

Thu Sep 12, 21:11:59

64% ▾

10:47 LF ▾ UTF-8 ▾ 4 spaces ▾



```
class Greeter {  
    var name: String = "World"  
  
    // greet the next person  
    fun greet(newName: String) {  
        name = newName  
        println("Hello, $name!")  
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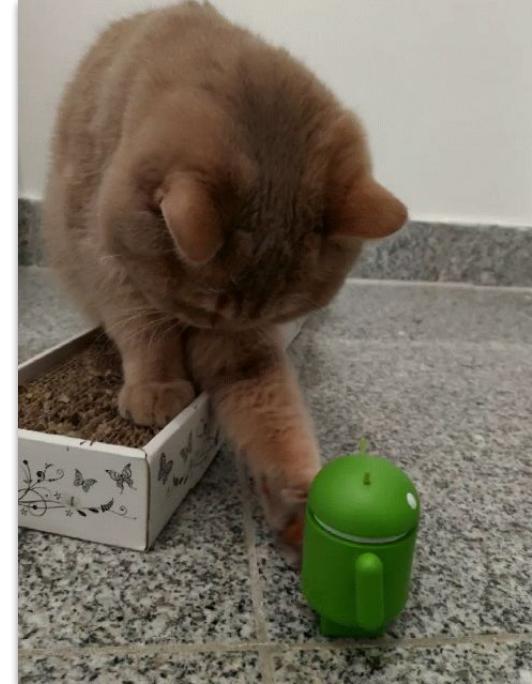


```
class Cat(name: String = "Placeholder cat name") {  
    // attack Android robot  
    fun attackAndroid() {  
        // code to be performed after calling this function  
        ...  
    }  
}
```





```
// Cat is not a primitive type like String  
var catBailey: Cat = Cat("Bailey")  
catBailey.attackAndroid()
```





Dev tip: learning to code.

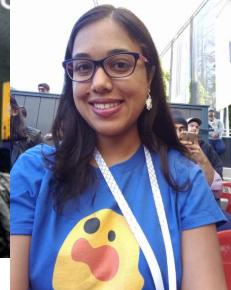
After writing some code, make sure to **recall it from memory** a few hours later.

Start with **describing the problem** you wanted to solve together with the **initial state**, and move on to **steps that were taken** to **find the solution**.

Initially you may or may not remember a thing, but with a regular practice it becomes a routine task.



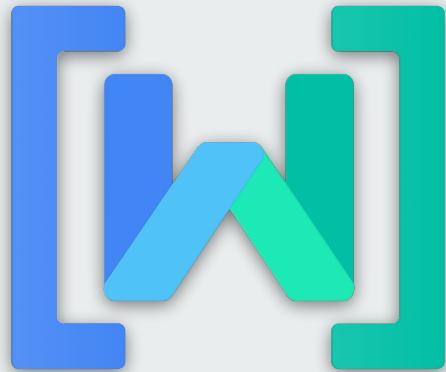
Conferences and meetups



@wtm_berlin

Conferences and meetups





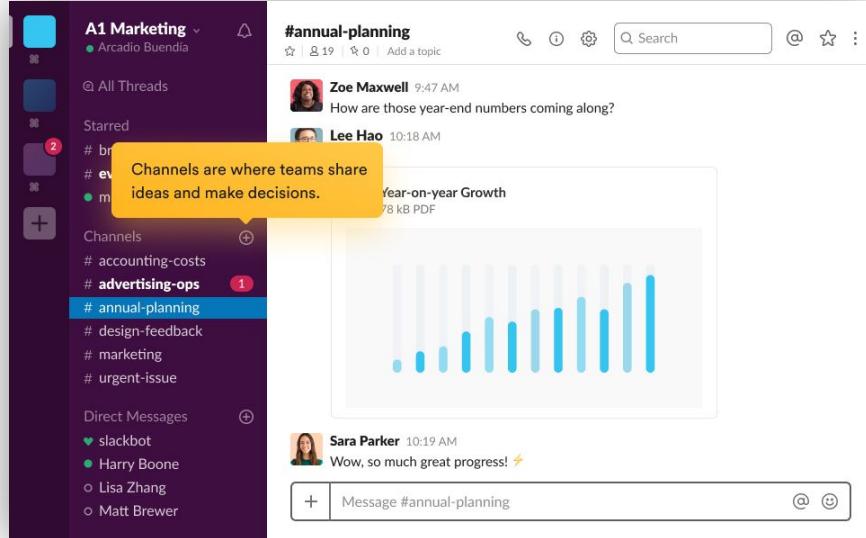
Women Techmakers (WTM)
Berlin



Google Developer Group (GDG)
Berlin Android

Common usages

- Code snippets to share ““my content””
- Boomerang messages for later
- Pinning important items
- Setting topic channels
- Efficient and fun
- Quick search for files within specified #channels
- Support of many integrations
- Chatbot hi guys, onboarding chatbot, reviews chatbot..



WTM Berlin

Anna [N]

Navigation < >

Threads

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- ml-event-for-wtmb
- # public-speaking-event
- # random
- scholarships-for-wtm
- wtm-1aim-gmbh
- wtm-checkout
- wtm-lieferando
- wtm-medici-living
- # wtm-volunteers
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- wtmb-organizers-chats
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3

Nachricht an #general

Suchfunktion

7 Upda



Women Techmakers
Berlin



@wtm_berlin

<https://berlindroid.de/>



Monthly community meetups with **talks and announcements** of local initiatives, job search & offerings and inspiring knowledge exchange with fellow devs 🎉💻

Weekly free **co-learning study group with a tutor!**
Bring your laptop and projects 🎉💻

Support and mentoring opportunities



@wtm_berlin



More tipps:

- **Code** should be **readable** and **understandable for others**, choose meaningful names to understand changes.
- When **reaching out for help** formulate and present:
 - Your desired final state
 - Current situation
 - Steps you took to solve it prior to asking for help
 - Errors

FAQ 😕

Are the Women Techmakers events open only for women? 👩‍👩‍👧

No! We are a very inclusive community, that is open to everyone (not only to Women). Our meetup group is always open to people of all backgrounds, regardless of gender, age, race, expertise, etc. - everyone is welcome!

Are the events free? 💸 🎉

Yes! WTM is a community-driven program operated only by volunteers, and together with local companies who are our great supporters and partners, we're always making sure all our events are free of charge. Mostly drinks and refreshments are offered, as well as occasional swag. We are also partnering with conferences and workshops, in Berlin and around the world, to provide free or discounted tickets for our attendees.

<https://github.com/WTMBerlin/WTMBApp/blob/master/FAQ.md>

```
10 # FAQ 😕
11
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attendees.
--
```

-> <https://github.com/WTMBerlin/AndroidStudyJam2019>

The screenshot shows the GitHub repository page for the project "WTMBerlin / AndroidStudyJam2019". The page includes a navigation bar with links to Why GitHub?, Enterprise, Explore, Marketplace, Pricing, a search bar, and sign-in options. The repository header shows 6 watches, 0 stars, 0 forks, and 0 releases. Below the header, there are tabs for Code, Issues (0), Pull requests (0), Projects (0), Security, and Insights. A note states "No description, website, or topics provided." Key statistics are displayed: 3 commits, 1 branch, 0 releases, and 2 contributors. A pull request from user mariobodemann is listed, along with a commit history showing initial app code additions across various files like app, assets, gradle/wrapper, .gitignore, README.md, build.gradle, gradle.properties, and gradlew. The latest commit was made 4 days ago.

WTMBerlin / [AndroidStudyJam2019](#)

Code Issues 0 Pull requests 0 Projects 0 Security Insights

No description, website, or topics provided.

3 commits 1 branch 0 releases 2 contributors

Branch: master ▾ New pull request Find File Clone or download ▾

mariobodemann Add screen cast 4 days ago

Latest commit 520a95d 4 days ago

File	Commit Message	Time
app	Add initial app code	4 days ago
assets	Add screen cast	4 days ago
gradle/wrapper	Add initial app code	4 days ago
.gitignore	Add initial app code	4 days ago
README.md	Initial commit	8 days ago
build.gradle	Add initial app code	4 days ago
gradle.properties	Add initial app code	4 days ago
gradlew	Add initial app code	4 days ago

@wtm_berlin

4:14

Tweet

David Inyang-Etoh Retweeted



David Inyang-Etoh
@dinyangetoh

Dear Young Developer,

- don't be intimidated by other people's achievements
- building your career is like climbing a ladder
- take one step at a time
- don't try to learn too many things at a time
- learn to complete tasks that you started
- celebrate your wins
- keep growing

1:08 PM · 22 Sep 19 from Uyo, Nigeria · Twitter for Android

166 Retweets 389 Likes



Tweet your reply

6:35 M M M

Tweet



Ray Wenderlich
@rwenderlich

On making progress by @moyheen:
"Sometimes I have moments when I don't feel like doing any work. During those times, I've trained myself to just start and take it one line at a time. . . before I realize it, I have churned out good quality work."

buff.ly/2YwGsK8



Tweet your reply

3:34 B26 R26

Tweet

Kate Efimova and Erin liked



Kara Luton
@karaluton

I've officially been a software engineer for longer than I was a music publicist 😳

Never did I think I'd end up in this career path but I'm so grateful that I'm here.

3:54 PM · 13 Sep 19 · Twitter Web App

3 Retweets 97 Likes



Ezell Frazier @_Ezell_ · 23h

Replying to @karaluton

How did you take up the software engineering path?



Kara Luton @karaluton · 23h

I was burnt out of working in music PR so I

Tweet your reply

10:16

Tweet



Ali Spittel

@ASpittel

Programming changed my life and career trajectory. I code almost every day and have taught a lot of other people how to as well.

But learning how can be really hard.

So, I wrote 33 pages all about my advice for getting started.

ebook.welearncode.com

10:11 PM · 17 Sep 19 · Twitter Web App

19 Retweets

82 Likes



Gonzalo Quintas @gonzaloquintas · 4m

Replying to @ASpittel

Thanks!

Tweet your reply

4:14



Tweet



Ali Spittel

@ASpittel

Programming introduced me to this magical world where I could type something into a computer, and the computer would then do what I told it to.

I have a career that allows me to help other people and to build things I'm passionate about. I'm so lucky ❤️

9:02 PM · 22 Sep 19 · Twitter Web App

78 Retweets

830 Likes



Oleksandr Stefanovskyi @OStefan...

· 18h

Replying to @ASpittel

Just read lines from the book "Code Simplicity" - "That is the art and talent involved in programming—reducing complexity to

Tweet your reply

ebook.welearncode.com

7:36



Tweet



Mirlu

liked

Ali Spittel

#OSCON

@ASpittel

Every time you learn something new when programming:

1 I totally got this, I'm gonna build a cool thing

2 this is awful omg, this bug is impossible to solve, I should probably just quit

3 I built the thing! This is the most exciting thing ever! What should I learn next?

4:44 AM · 19 Jul 19 · Twitter for iPhone

27 Retweets

190 Likes



Tweet your reply

8:40 N26 M

Tweet

Ioanna Talasli Retweeted



Aw heck, it's Phil 🏳️🌈
@ThatDangPhil

As a hiring manager, I will 100% always hire for passion, caring, empathy, and curiosity over pure technical talent. You can teach almost ANYTHING faster than you can teach a healthy, inclusive attitude and I build teams not products.

Brian P. Hogan @bphogan · 1d

I've hired a few people in my time.

I've never been disappointed by hiring someone who is less technical but is a great human who cares for others. ...

3:21 AM · 16 Sep 19 · Twitter for Android

24 Retweets 126 Likes



Tweet your reply

8:40 N26 G M

Tweet

Kelly Zick liked



Brittney (she/her) 🧠👤📊📈
@Brii_toe_knee

This past year has really helped me see the direction I want to take my career in. Technology has so many different paths. You don't have to force yourself to fit in particular title. Do your research and talk to others.. find the title that feels like it was made for you.

3:28 PM · 17 Sep 19 from Charlotte, NC · Twitter for iPhone

7 Retweets 58 Likes



Jeneba Wint 🌈 @jenebamwint · 1h

Replying to @Brii_toe_knee

This year helped me realize I'm making up my own title and creating my own roles sis 🤪



Tweet your reply

8:23 N26 G M

Thread

Tae'lur Alexis 🌈 and April.py liked



Zero Two.1
@KiraiKairi

I just want every new developer following me to know I dropped out of college, coding dojo, and lambda school 😅 and still made it. The moral of this tweet is, keep going. If my lazy ass can do it you can too.

5:14 AM · 29 Aug 19 · Twitter for iPhone

6 Retweets 62 Likes



Zero Two.1 @KiraiKairi · 1h

If you follow me off this tweet please dampen your expectations lower your sense of decency because this tweet is not indicative of my normal content



Jayla @jay_kidding · 2h

Replying to @KiraiKairi

Tweet your reply

```
class Greeter {  
    var name: String = "World"  
  
    // greet the next person  
    fun greet(newName: String) {  
        name = newName  
        println("Hello, $name!")  
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```

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}
```

```
class Greeter {  
    variable → var name: String = "World"  
        // greet the next person  
        fun greet(newName: String) {  
            name = newName  
            println("Hello, $name!")  
        }  
}
```

```
class Greeter {  
    var name: String = "World"  
        ^type  
  
    variable →  
        // greet the next person  
        fun greet(newName: String) {  
            name = newName  
            println("Hello, $name!")  
        }  
    }  
}
```

```
class Greeter {  
    var name: String = "World"  
        ↑type  
  
    // greet the next person  
  
    fun greet(newName: String) {  
        function →  
        name = newName  
        println("Hello, $name!")  
    }  
}
```

```
class Greeter {  
    var name: String = "World"  
        ↑type  
  
    // greet the next person  
    fun greet(newName: String) {  
        ↑argument(s)  
        function → name = newName  
        println("Hello, $name!")  
    }  
}
```

```
class Greeter {  
    var name: String = "World"  
    // greet the next person  
    fun greet(newName: String) {  
        name = newName  
        println("Hello, $name!")  
    }  
}
```

variable → var name: String = "World" type → String

comments → // greet the next person argument(s) → newName

function → fun greet(newName: String) { }

Something about xml