

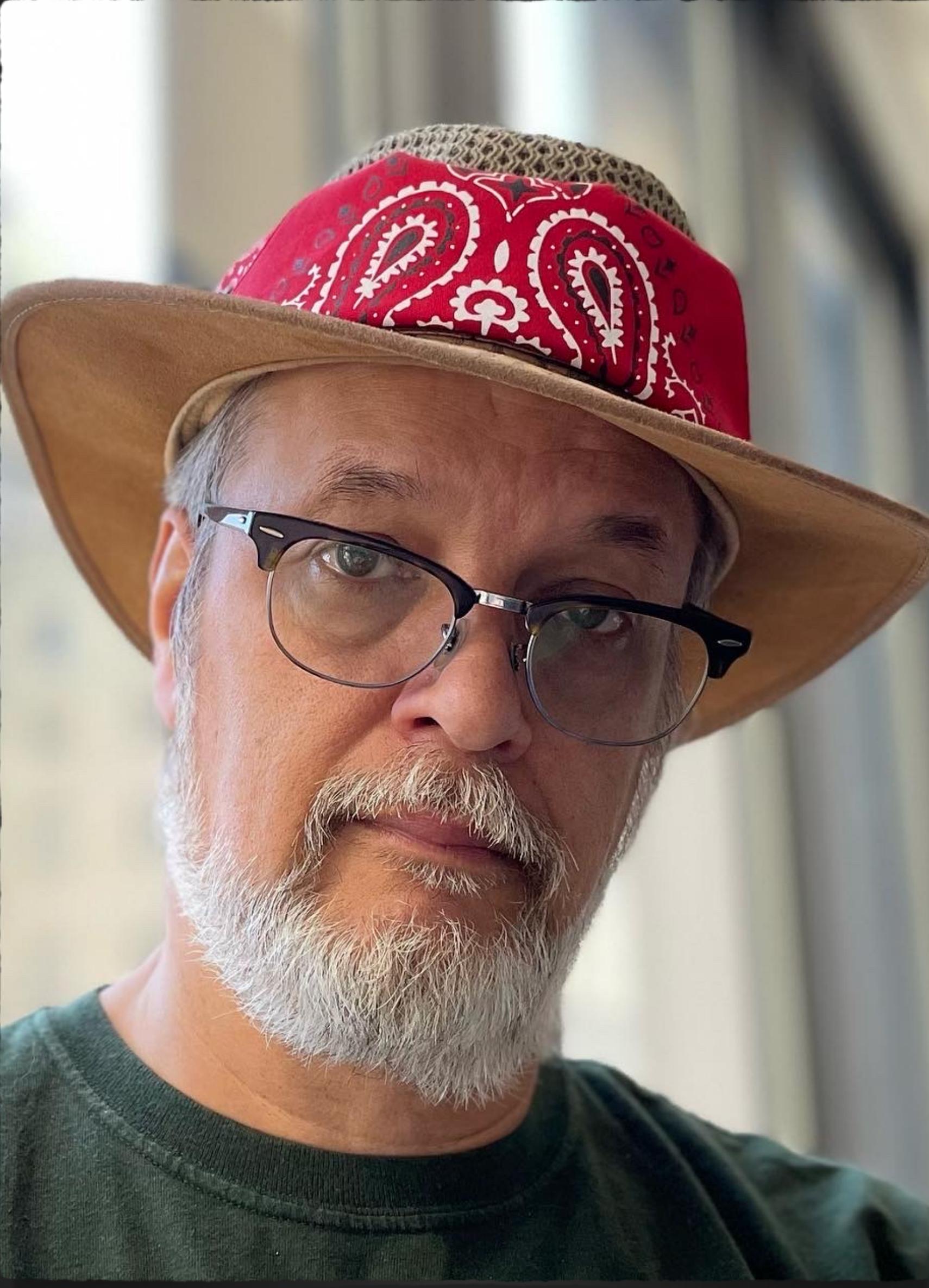
WE REGRET TO INFORM YOU...

FINDING YOUR NEXT PATH



- as an iOS Engineer -

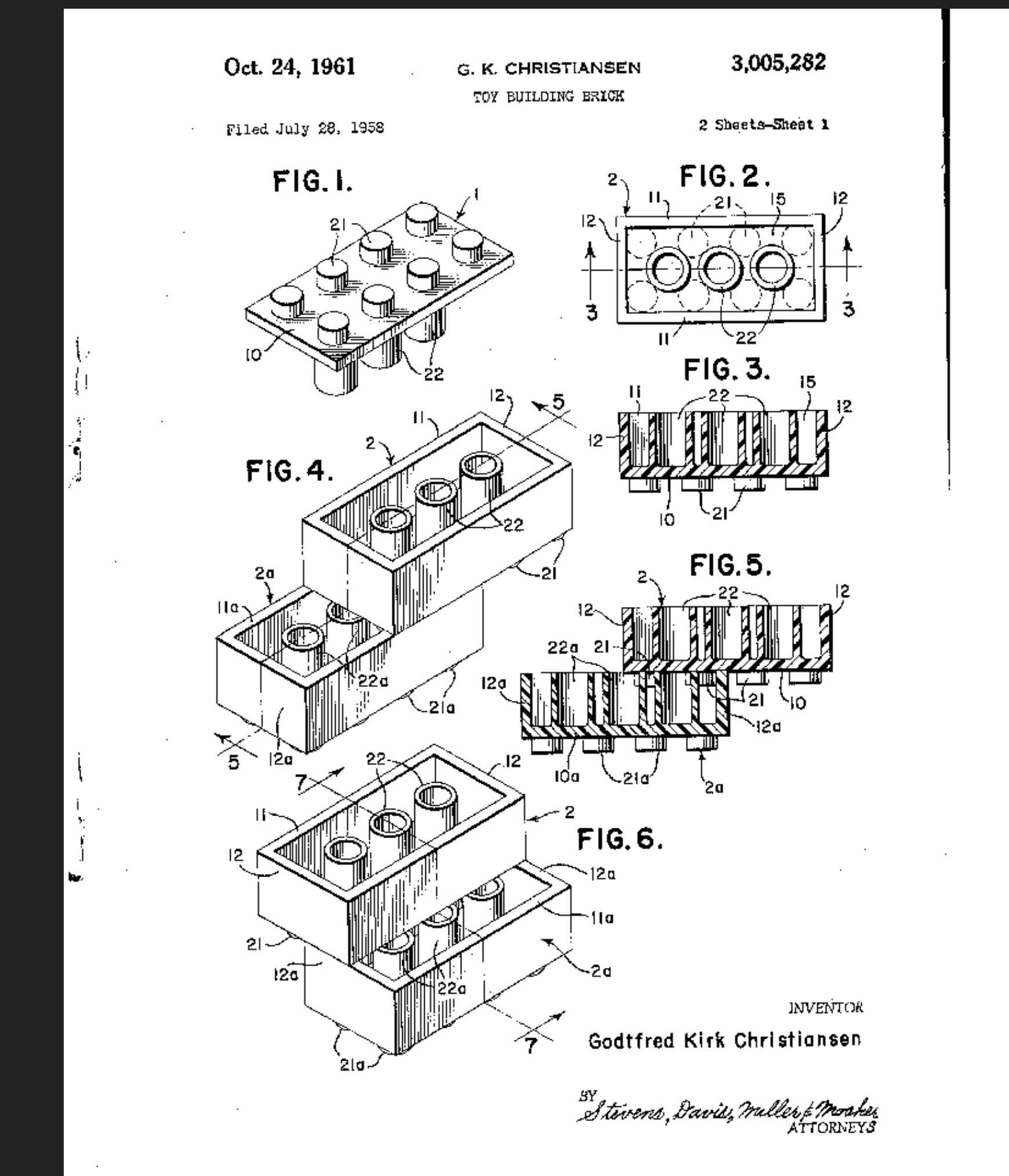
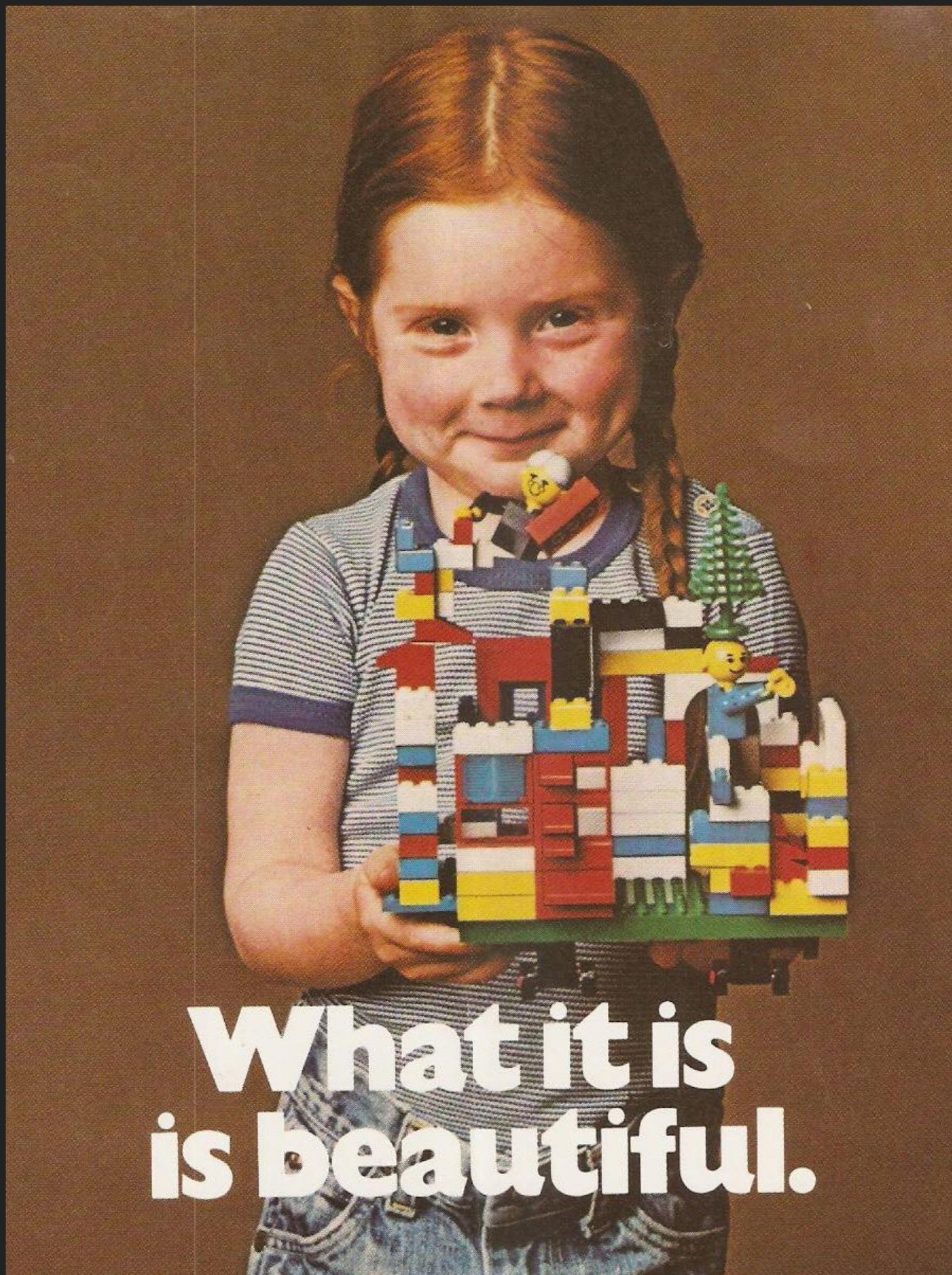
**ARTIST,
PODCASTER,
MAKER,
TECH WRITER,
IOS ENGINEER,
SR ENGINEERING
MANAGER IOS**



CONDITIONAL BREAKPOINT



What we love vs What they ask



pizza driver

editor

manager

author

iT guy

podcaster

mentor

artist

tech evangelist

Apple consultant

Art Director

instructor

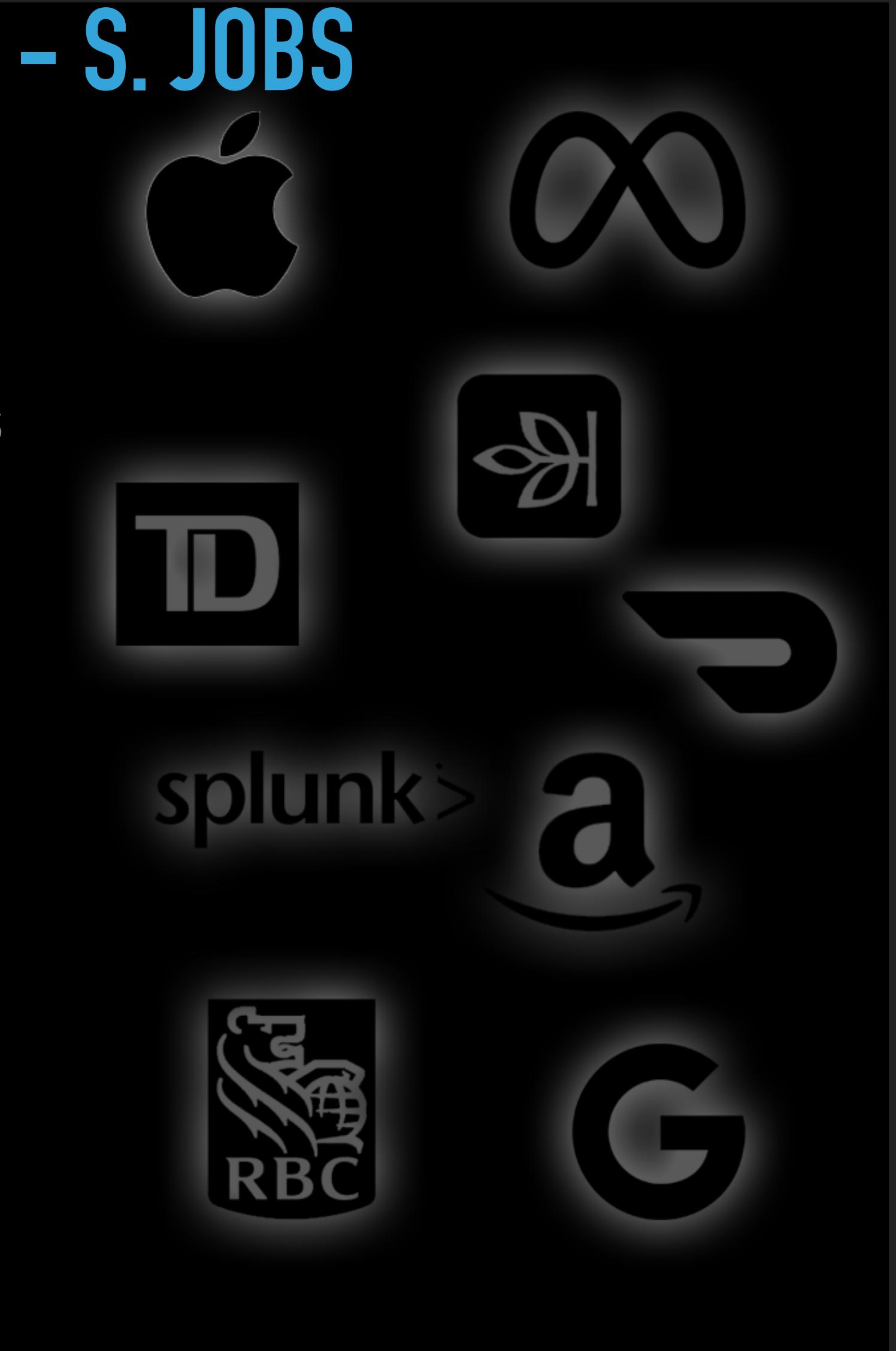
writer

iOS developer

maker

“1000 NO’S FOR EVERY YES” - S. JOBS

- ▶ Job search is a full time job
- ▶ 59 Roles applied over 2.5 years
- ▶ 33 x interviewed
- ▶ 5 x 5 or more rounds
- ▶ 3 offers



“People think focus means saying yes to the thing you’ve got to focus on. But that’s not what it means at all. It means saying no to the hundred other good ideas that there are. You have to pick carefully. I’m actually as proud of the things we haven’t done as the things I have done. Innovation is saying no to 1,000 things.

- Steve Jobs WWDC 1997

Run ▶

Drawing Mode ✎

Info

Swift 5

```
24
25  /**
26   The default FunkyNotificationCenter singleton
27  */
28  static var defaultCenter = FunkyNotificationCenter()
29
30  var notificationObservers = [String: [(object: AnyObject, closure: (String)->Void)]]()
31
32
33  /**
34   Add the given observer object to the notification name. When the given notification name
35   is posted, the given 'using' closure should be executed.
36
37  - Parameters:
38    - forName: The notification name the object is observing
39    - object: The observer object that is requesting to listen to the notification
40    - using: Closure to be executed when the notification is posted
41  */
42  func add(forName name: String, object: AnyObject, using: @escaping (String) -> Void) {
43
44    //self.notificationObservers.updateValue(object, forKey:name)
45    var values = self.notificationObservers[name]
46    if values == nil {
47      values = [(AnyObject, (String)->Void)]()
48    }
49    values?.append((object,using))
50
51    self.notificationObservers[name] = values
52  }
53
54  /**
55   Post a notification with the given name.
56
57  - Parameters:
58    - name: The notification to post
59  */
60  func post(name: String) {
61    // TODO
62    let observerValues = notificationObservers[name]
63    if let observerValues = observerValues {
64      for observer in observerValues {
65        observer.closure(name)
66      }
67    }
68  }
```

- ▶ Implement a linked-list. How would you detect if linked-list has a loop?
- ▶ Given two rectangles, create a function to tell if the two rectangles overlap?
- ▶ Given two sentences, return two arrays; one that has the words that appear in one sentence and not the other, and a second array with the words the sentences share in common?
- ▶ How do you check if a string is a palindrome?
 - eg. Race car
 - eg. kayak
 - eg. "Madam, I'm Adam."

CODING & ARCHITECTURE

- ▶ LIVE CODING
- ▶ CHOOSE A TASK
- ▶ LEETCODE
- ▶ TAKE HOME TRAPS
- ▶ CODE REVIEW

- ▶ PAIR PROGRAMMING
- ▶ ARCHITECT PROJECT
- ▶ API
- ▶ DOCUMENTATION

- ▶ BUILD A FRAMEWORK
- ▶ ALGORITHM
- ▶ GOOGLE PUZZLE
- ▶ BEHAVIOURAL AMBIGUITY
- ▶ CAREER PATH

IOS QUESTIONS

- ▶ IOS MEMORY MANAGEMENT
- ▶ STRUCT VS CLASS
- ▶ POP
- ▶ MVVM VS MVP
- ▶ DELEGATION
- ▶ WHAT IS AN OPTIONAL
- ▶ GENERICS
- ▶ FUNCTIONAL SWIFT
- ▶ ACCESS IN SWIFT
- ▶ @STATE & @STATEOBJECT
- ▶ OBSERVABLE CODEBALE
- ▶ GCD & NSOPERATIONS
- ▶ @BINDING

SWIFT STYLE

- ▶ READABILITY IS MOST IMPORTANT
- ▶ ALWAYS ADD DOCUMENTATION
- ▶ TYPES -> UPPERCASE LETTER
- ▶ FUNC & VAR -> LOWERCASE LETTERS
- ▶ USE TYPE INFERENCE, UNLESS AMBIGUOUS
- ▶ DEFAULT TO STRUCT
- ▶ USE THE TRAILING CLOSURE
- ▶ GUARD EARLY
- ▶ DON'T REPEAT YOURSELF
- ▶ FAVOR IMMUTABILITY
- ▶ CUDDLED ELSE VS UNCUDDED
- ▶ TABS VS SPACES
- ▶ STAR ? WARS : TREK



editor

▶
mother

▶

▶

designer

▶

author

illustrator

podcaster

JUNIOR/INTERNSHIP

INTERMEDIATE

SENIOR ENGINEER

STAFF

PRINCIPAL

ENGINEERING MANAGER

SENIOR ENGINEERING MANGER

farmer

artist

instructor

writer

developer

wife

Tim Mitra
@timmitra

**OMFG SO MANY ROUNDS!
INTERVIEWING AT 3 COMPANIES & I HAD
~20 TECHNICAL INTERVIEWS OF
SOME FORM OR ANOTHER**

@desinatedNerd



Tim Mitra
[@timmitra](https://twitter.com/timmitra)

WHERE TO LOOK?

Hired

LinkedIn

Job Search

Friends

Recruiters

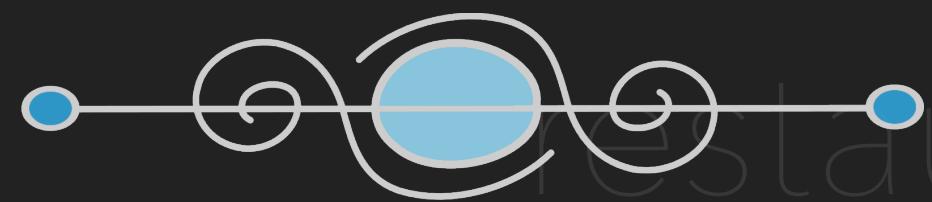
Slack

Twitter

editor illustrator instructor
mother podcaster public speaker
designer mentor developer
author farmer restaurant owner
artist wife

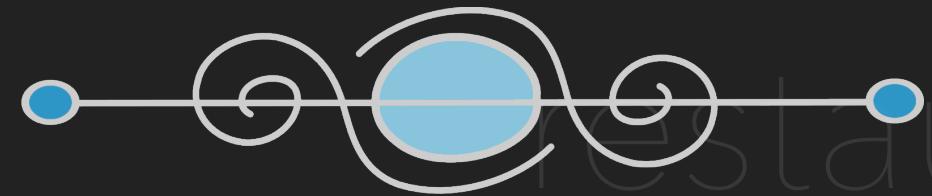
YOUR PROFILE

**RESUME, LINKEDIN, GITHUB, SOCIAL
PHONE NUMBER, EMAIL, ADDRESS**



RESUME

WHAT DO YOU WANT TO BE?
ONE FOCUSED PAGE



Tim

411-170-0009 • Toronto ON I 6 •

Engineering Manager, Senior Product

iOS Subject Matter Expert |

I strive to create honest and knowledgeable solutions that empower people to embrace change. I am a methodical and highly experienced application development, tech journalism administration, and IT services earned as

WORK EXPERIENCE

TD Bank - Toronto ON

Engineering Manager - iOS / Senior iOS

iOS Development Manager in the Agile Fac

- People manager and tech mentor
- iOS subject matter expert working
- Design & develop native apps, lead
- Champion managed Mac workstat

Apple - Cupertino CA

Technical Evangelist

Technical writer, editor and evangelist on

- Worked on the creation of content
- Worked on features for WWDC 2021
- Mentored writers, artists, videogra

iT Guy Technologies - Toronto ON

Engineering Manager, Senior iOS Engine

Founded small software development shop

- Successfully produced & published
- Worldwide.
- Launched More Than Just Code, #1
- Providing IT consultation, support
- clients.
- iOS Development Instructor, techn
- Objective-C since 2011.
- Hosted and produced over 400 po

TIMOTHY A. MITRA

Mobile Software Engineer/Manager, Technical Evangelist, Producer, IT Specialist

56

B6 | Tel: (416) 123-09 | Email: ti@itguy.ca

www.it-guy.com | LinkedIn: <https://www.linkedin.com/in/itguycanada/>

PROFILE

I strive to create honest and knowledgeable solutions that empower people to embrace change.

A highly experienced multidisciplined and proven solutions developer, with in-depth, hands-on experience and passion for mobile application development, design, information technologies, administration, mentoring, people management and support. Specializing in Apple technologies, I have spent several years as an Apple Consultant and Apple Authorized Reseller. I am also a subject matter expert and developer of native applications utilizing Swift, SwiftUI & Objective-C for iOS & macOS as well as dynamic, APIs and database-driven Web 2.0 sites written in php/MySQL. As an IT consultant, I have served clients as diverse as private individuals, small-scale start-ups, medium and enterprise clients, international clients, the Government of Canada, TD Bank, the Canadian & Spanish Olympic Committee, retailers Eatons, HBC and Wal-Mart Canada.

With a background in the visual arts, graphics, print and web publishing, I combine technical expertise, logical, lateral thinking, and inspired creativity to create custom solutions and services that deliver above and beyond the client's expectations. I have a proven ability to motivate multidisciplinary teams to success, along with an exceptional talent for forging and maintaining strong, productive client relationships. Above all, I bring the ability to make complex problems into simple solutions, analyze requirements from various perspectives, and bring the necessary technological components together to make them work.

Professional Experience

Engineering Manager – Mobile Agile Pods, iOS

2017-Present

TD BANK, TORONTO ON

This role involves estimating, planning, budgeting, managing developers, design and development of solutions in a variety of projects related to the mobile banking platform. Developing native iOS applications in Objective-C and Swift, as well as, mentoring other developers and contractors. Currently I am an iOS Development Manager in the Agile Factory and some project work. Creating and maintaining documentation, leading development teams, leading meetings and technical interviewing and onboarding new staff. An active member of Mobile Design Review Board, Enterprise Managed Mac Support, code reviews and advising on development patterns and coding standards.

Some of my project highlights include:

- Manage multiple Agile pods composed of iOS, Android and micro services developers, QA and business analysts.
- People manger to ~9 full-time employees and contingency workers
- Overseeing and reporting project status, managing project team resources.
- iOS subject matter expert working with LOB technical partners, #1 Canadian banking app.
- Develop and/or review estimates and estimating; schedule, effort, cost and best practices.
- Work with LOB Technology Solutions partners to develop the content of deliverables.
- Ensure that all requirements, project plans, and changes are communicated to all team members.
- Provide technical leadership for the team specifically in the area of iOS development.
- Provide coaching, mentoring and overall team leadership for all team members.
- Participate in knowledge transfer within the team and business units.
- Champion managed Mac workstations for 50+ iOS and Android developers, and designers.

Technical Writer – Evangelism - Developer App Content Team (freelance)

2020-2022

APPLE (CONTRACT), CUPERTINO CA

This WWDR role involves creating technical content for developers in the Developer App. This draws on my subject matter expertise on developing apps for Apple platforms.

- Worked on the creation of content for articles appearing world-wide in the Developer app.
- Worked on features for WWDC 2021, beginner series and developer highlights.

Open with Adobe Acrobat Reader DC

609

ager,

writing,

solving,

development,

ing, audio

ymnt,

ress,

UI/UX,

ous

toshop &

nation

nada/

per By

6, iOS

Timothy Mitra

Engineering Manager, Technical Evangelist, Producer, IT Specialist

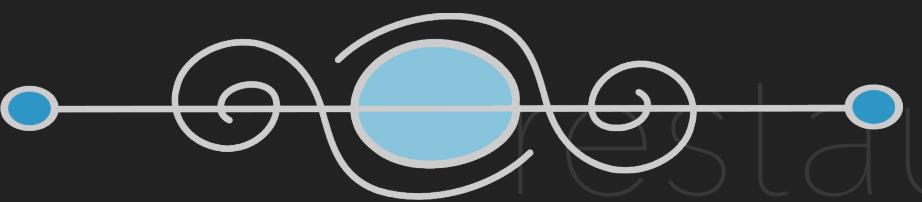
Mobile Software Engineer/Manager, Technical Evangelist, Producer, IT Specialist

LINKEDIN & GITHUB

HR & HIRING MGRS READ YOUR LINKEDIN!

TECH INTERVIEWERS READ YOUR GITHUB

MAKE A GITHUB README



in Search

Home My Network Jobs

Overview Repositories 24 Projects Packages Stars 8

Tim Mitra
Sr. Engineering Manager - iOS, Senior iOS Engineer & SME, Tech Evangelist, Producer, Podcaster, Artist
Talks about #fintech, #podcast, #iosengineer, and #mobileappdevelopment
Toronto, Ontario, Canada · [Contact info](#)

1,150 followers · 500+ connections

[Open to](#) [Add profile section](#) [More](#)

Show recruiters you're open to work — you control who sees this. [Get started](#)

Find potential clients by showcasing the services you provide. [Get started](#)

Take a skill quiz

360|iDev 2022

Tim Mitra
timmitra

Tim is a mobile app developer, podcaster and artist. He also teaches iOS dev, Swift and Objective-C. Tim is an iOS Sr. Engineering Manager, iOS at SpotHero.

[Edit profile](#)

8 followers · 3 following

IT Guy Technologies · Toronto · www.it-guy.com

Achievements

Beta Send feedback

Organizations

Work

I'm a Sr. Engineering Manager, iOS at SpotHero, since July 2022. I was iOS Engineering Manager at TD Bank from January 2016 to June 2022. I've been running IT Guy Technologies since April 2005.

Conference Talks

- Upcoming: We Regret To Inform You... at 360iDev 2022

Where I've Given Talks:

- Canada
- USA

Conference Videos

- SwiftTO: 5 Ways to Level Up Your Mobile Development
- 360iDev: Being a Better Developer By Talking
- Indie Devstock

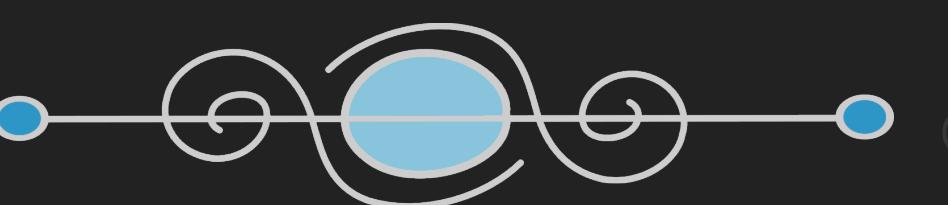
timmitra / README.md

WHAT TO ASK?

- ▶ THE WORK
- ▶ TECH STACK
- ▶ TEAM SIZE
- ▶ TOOLS
- ▶ MANAGED MAC
- ▶ AGILE
- ▶ DAY IN THE LIFE



- ▶ INTERVIEWER EXP
- ▶ REMOTE/HYBRID
- ▶ WORK/LIFE PTO
- ▶ STOCK OPTIONS/RSU



artist

- ▶ ANNUAL BONUS
- ▶ SIGNING BONUS
- ▶ BENEFITS
- ▶ 401K / RSP
- ▶ PENSION

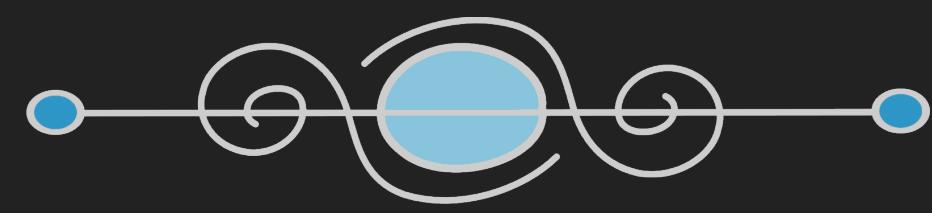
Tim Mitra
@timmitra

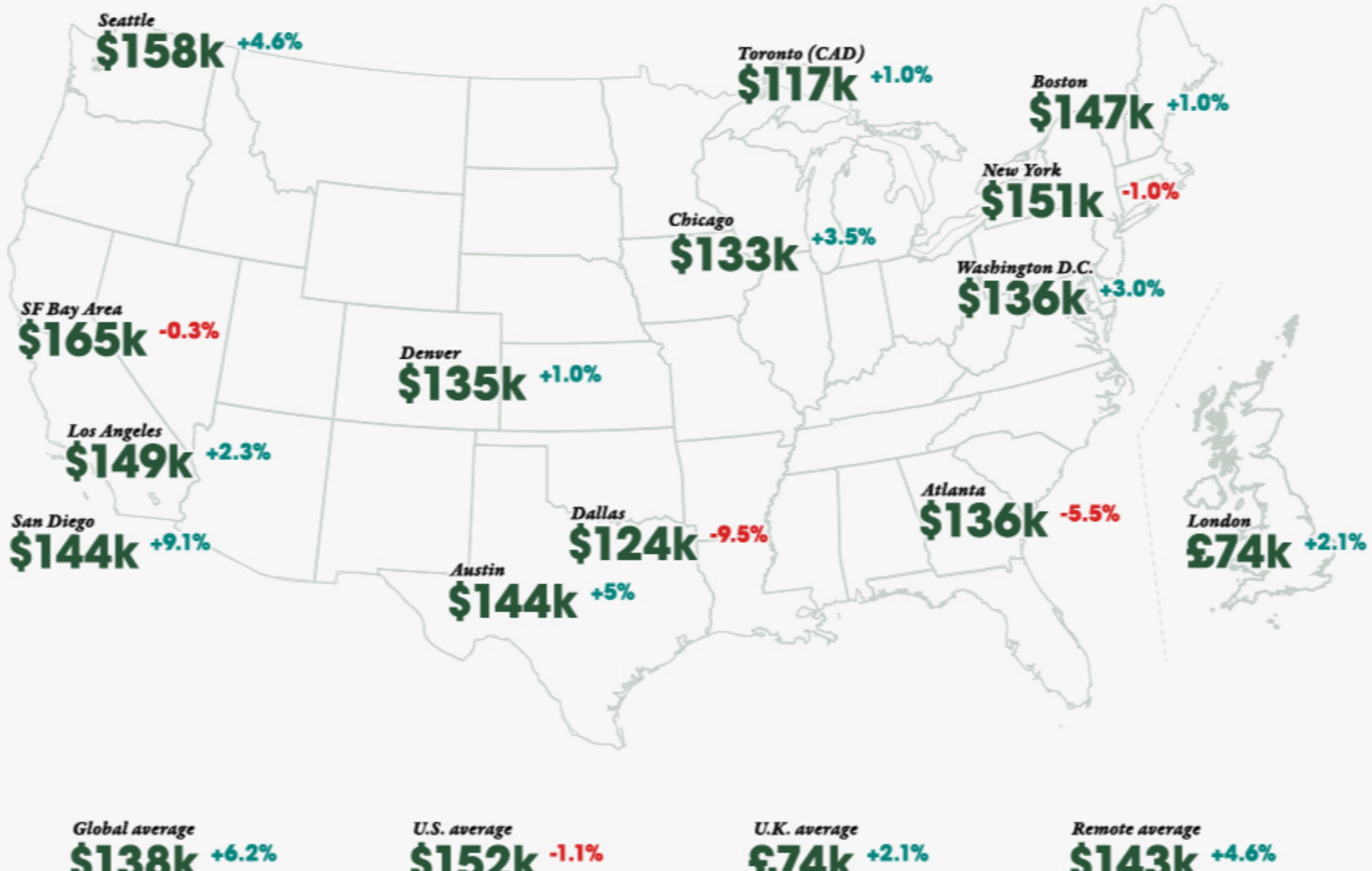
COMPENSATION

BASE + BENEFITS + OPTIONS

92% SURVEYED DID RESEARCH

LEVELS.FYI



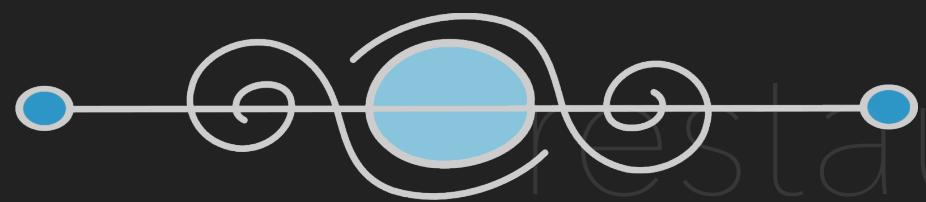


LEAVING MONEY ON THE TABLE?

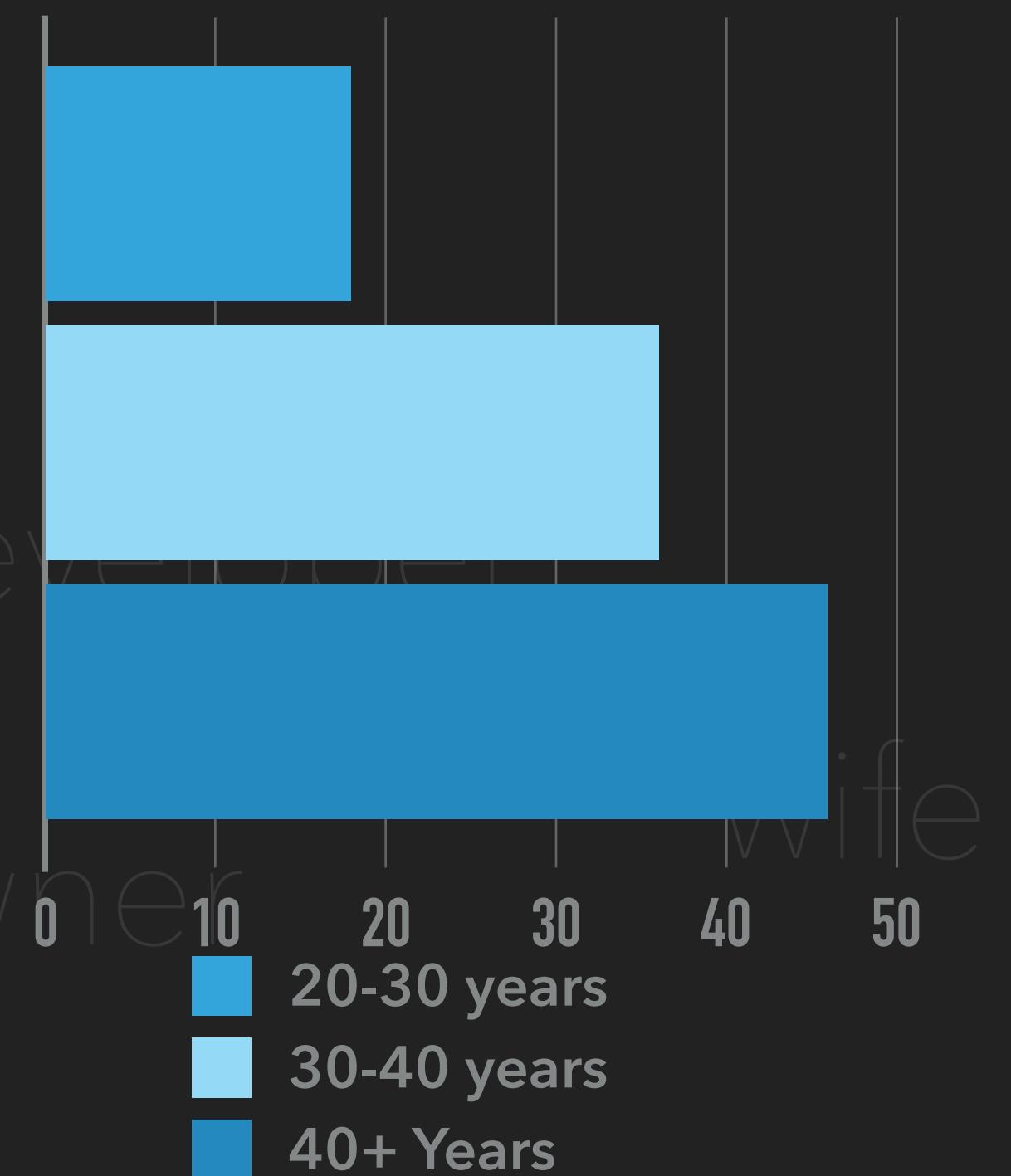
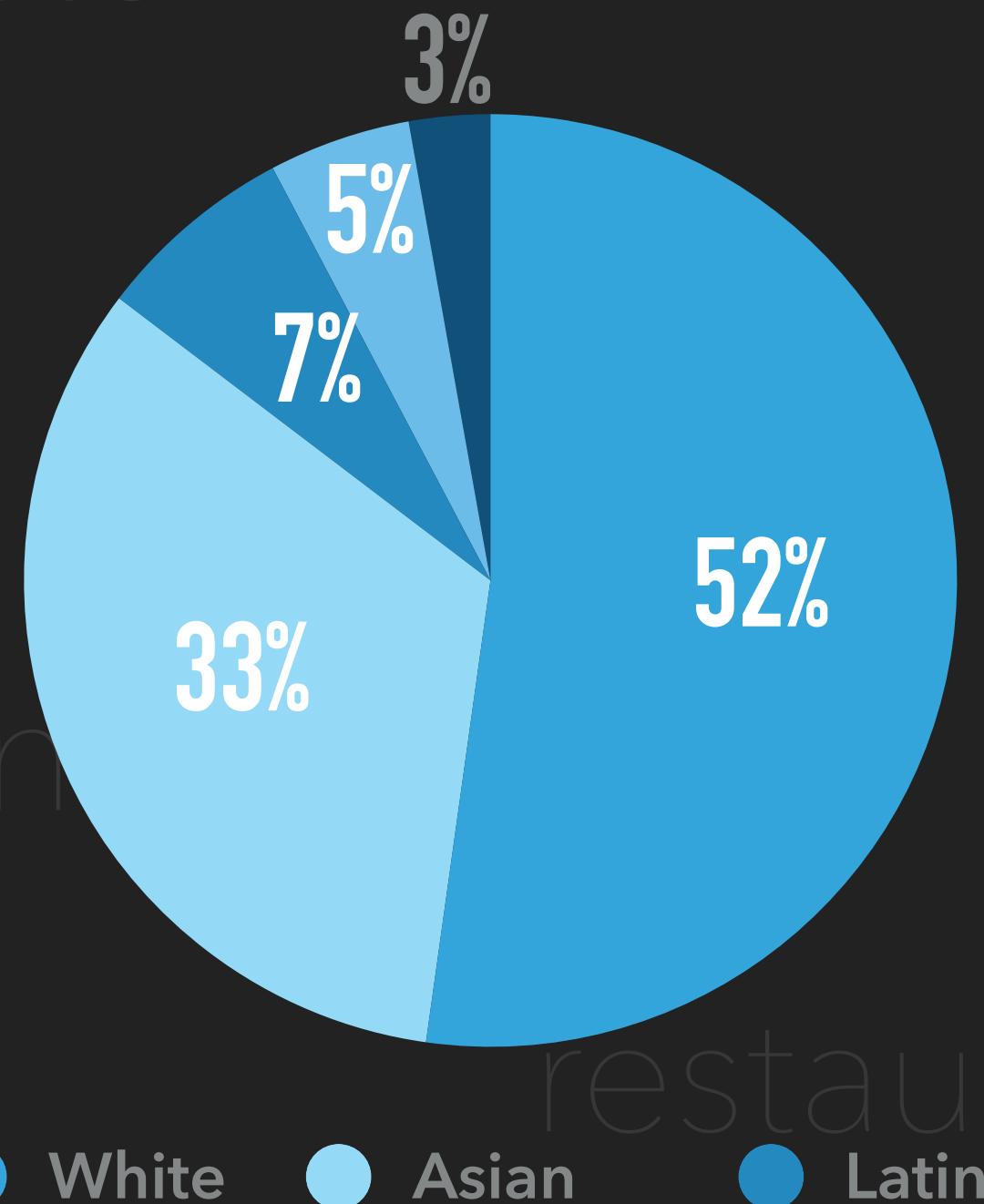
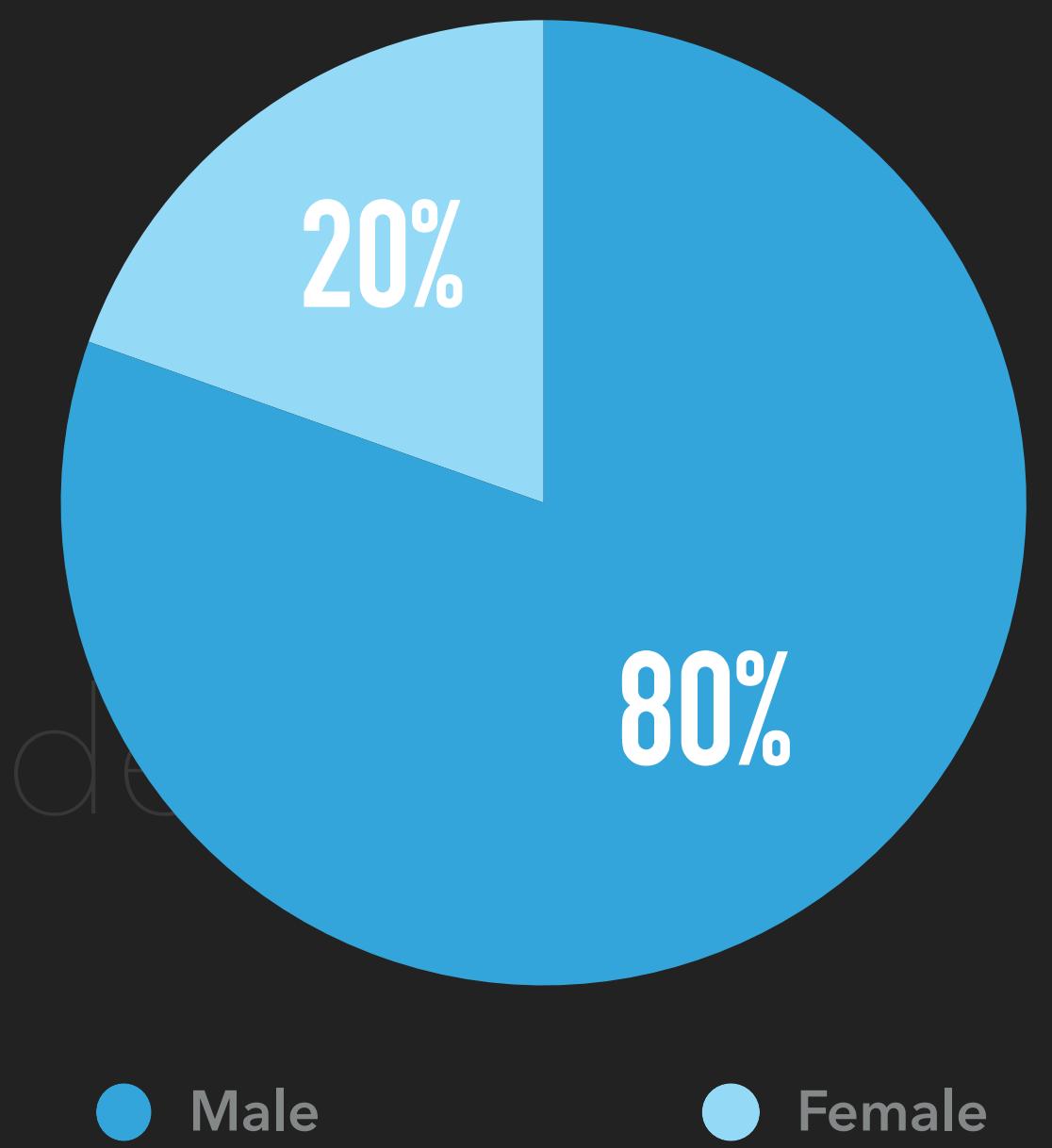
	Apple	Meta	Google	Amazon	Uber
Salary	CA\$185,160	CA\$197,278	CA\$190,539	CA\$173,024	CA\$187,567
Stock/yr	CA\$106,426	CA\$155,038	CA\$132,072	CA\$155,758	CA\$168,378
Bonus	CA\$25,043	CA\$34,129	CA\$36,019	CA\$14,862	CA\$32,196
Total	CA\$316,629	CA\$386,445	CA\$358,630	CA\$343,644	CA\$388,141

UNCONSCIOUS BIAS

IT IS ILLEGAL TO ASK ABOUT HERITAGE,
RELATIONSHIPS, AGE,



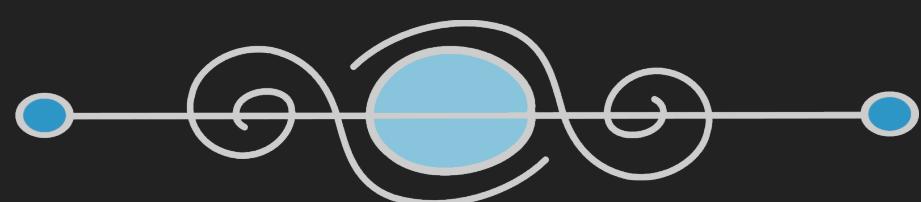
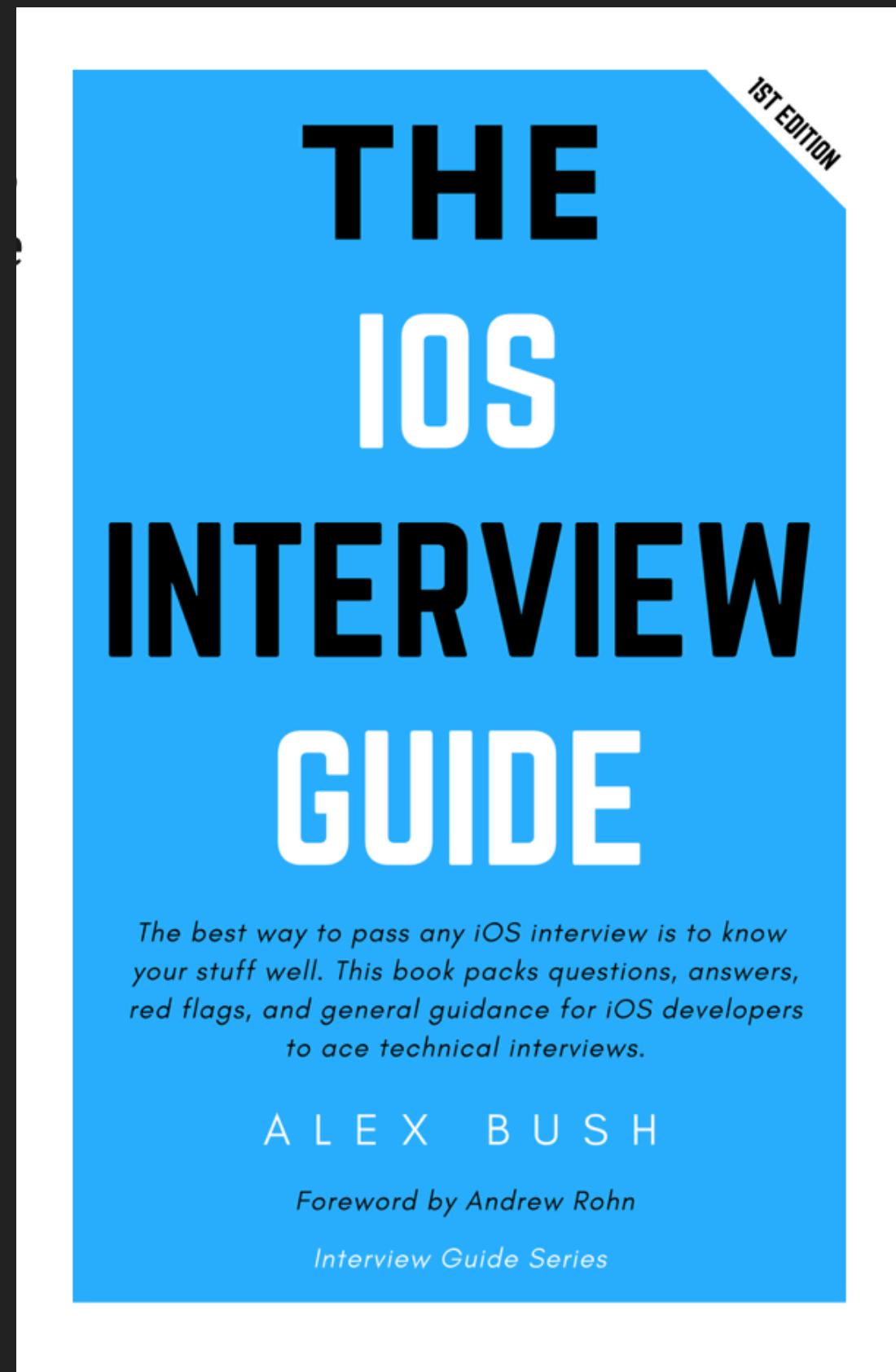
STATS



Source: zippia.com

Tim Mitra
@timmitra

STUDY

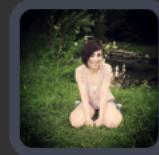


PRACTICE

[Home](#) > [iOS & Swift Tutorials](#)

Navigating the iOS Interview

Looking for an iOS job? This article gives you the best advice, tools and interview questions to prepare you for a successful iOS interview process.



By Lea Marolt Sonnenschein

Jul 13 2020 · Article (30 mins) · Beginner

5/5 ★★★★★ 35 Ratings



PRO

Acing the iOS Interview

May 10 2022 · Video Course (2 hrs, 14 mins) · Beginner

The iOS interview process is nerve-wrecking, time-consuming, and frustrating. Join us to learn how to answer any interview question like a pro. In this course, experts from top companies show you EXACTLY how it's done, from start to finish. You'll learn what works and what doesn't, and how to improve, so that you can go into your next iOS interview feeling prepared, confident and ready to rock!

[Get Started](#)

5/5 ★★★★★ 2 Ratings · 1 Review

Version

Swift 5.5, iOS 15, Xcode 13

How-tos

iOS & Swift Tutorials



Mock Interview Techniques for Tech Job Searchers - RayWenderlich.com

PRACTICE

Test your Swift

If you're looking to find a way to see just how much Swift you know, you've come to the right place: I've put together three Swift tests suitable for a range of experience levels, each of which will help you identify how much you know, and perhaps how much you still have to learn.

The test begins when you click Start for your chosen test. **Your score is not stored.** When you finish the test you'll be given a unique URL that verifies your score was achieved by you at a specific time.

Before you start, you might find it useful to read the frequently asked questions below. Short version: assume all code shown to you is being run in a playground using Swift 5.4 or later.

Warning: these tests place a cookie in your browser. This allows us to track the answers you submit to each question so we can show you your results. This cookie is deleted when you close your browser.

All set? Let's do this...

[Start Novice Test](#)

[Start Intermediate Test](#)

[Start Expert Test](#)

PRO

Acing the iOS Interview

May 10 2022 · Video Course (2 hrs, 14 mins) · Beginner

The iOS interview process is nerve-wrecking, time-consuming, and frustrating. Join us to learn how to answer any interview question like a pro. In this course, experts from top companies show you EXACTLY how it's done, from start to finish. You'll learn what works and what doesn't, and how to improve, so that you can go into your next iOS interview feeling prepared, confident and ready to rock!

[Get Started →](#)

5/5 ★★★★★ 2 Ratings · 1 Review

Version

Swift 5.5, iOS 15, Xcode 13

How-tos

iOS & Swift Tutorials



Mock Interview Techniques for Tech Job Searchers - RayWenderlich.com

THANK YOU FOR YOUR TIME

HAVE A GREAT DAY



Tim Mitra, artist, maker, podcaster



Thank you so much for taking the time to speak with me about your background. It was great to learn more about your experience. We're grateful for your time and the opportunity to get to know you a bit better.

After speaking with the team, we have decided not to move forward at this time. However, we would love to keep in touch about future opportunities.

We have decided to put the hiring of an engineering manager on hold for the time being.

We will most likely pick it up in a few months. Happy to keep you in the loop about this.