

**Greetings Everyone & Happy New Year! 🙌**

For those learning about this curriculum/cohort for the first time, this is an initiative led by Will Little (<https://www.linkedin.com/in/wclittle/>) in collaboration with [BanyanDAO](#) and [Prota Ventures](#). You can learn more and apply to be a part of the free private cohort in Q1 2023 [here](#).

**Feel free to suggest/comment anywhere below to add resources / edits / ask questions / etc...** We'll keep this open to the public as long as it doesn't get too unruly. :)

This is meant to be a meta-level curriculum that points to a variety of other tutorials/videos/screencasts to learn more about a particular subject.

Feel free to go at your own pace through this - at any order that best suits you - and ask questions in BanyanDAO's Discord server [here](#) or the private Slack group (if you are part of the cohort).

We'll be covering **Product** and **Code**, in parallel, at the timing/pacing that makes sense for you.

## Product

Our scope here is to help teach modern Web2, Web2.5, and Web3 product development and management. What we mean by "product" is usually - in our context here - a web and/or mobile application.

- **Web2** - "Read/Write" (e.g. what most people think of the Web today, apps like Instagram and Google and such)
- **Web2.5** - Companies like [OpenSea](#), which are standard Web2 companies that interact - to some degree or another - with Web3 things.
- **Web3** - These are [DAOs](#) and protocols like [Lens](#) that are dominantly blockchain-based, but still - of course - need "Web2" things to function (e.g. a web app with a private database as well as a public blockchain).

Begin by reading Eshita's [Web3: in a nutshell](#), this will give you a historical overview as well of Web1/2. For those who prefer video, you can also watch <https://www.youtube.com/watch?v=FExp9YuTzbY> (i.e. HBR's "What is Web 3.0")

When building a product, the name of the game is all about **testing** whether your idea has demand (i.e. the people want it). The book [The Lean Startup](#) popularized this idea, and many other books/resources have followed since to teach the same basic thing...i.e. *create/build the least possible thing to test whether your thing has demand*.

So, when creating a digital product, the best thing to do is design and sketch it out. I usually suggest starting with writing out your [idea](#), a [3-sentence description](#), and a full [overview story](#).

I've actually written a full set of articles on *"How to create, grow, and fund a tech startup: an operational framework"* - you can check that series out [here](#). I'll be referring to these articles a fair amount as we go.

For now, the product topics to dive into are:

- Create an [Overview Story](#)
  - Bounce this off close friends for feedback
  - Revise and then try to find people in your target audience to give you feedback.
- Create a [UI Spec](#)
  - This is a page-by-page, element-by-element description of what you are trying to build. The more you can put this in writing, the better.
- Create a [UX Flow Chart](#)
  - The gold standard these days is to use [Figma](#) to do this (highly recommended).
- Establish your [Brand Foundations](#)
- Pick a [Name](#)
  - You can use [ChatGPT](#) these days to ask the AI for a good name
- Use AI to make a quick [Logo](#)
  - E.g. <https://www.logoai.com/>
- Use Figma to sketch out some [wireframes](#).
- Turn these wireframes into [mockups](#) (you may need to hire a designer for this, which you can do on [any freelancer website](#)).
- Turn the mockups into a [clickable prototype on Figma](#).

At this point - from a "Web2" perspective - you are ready to merge your "Product" skills and develop your **Code** below. If you want to dive into Web3 things, keep reading.

### **(Advanced) Web3 Product Things**

For those looking to build something beyond Web2, you'll likely be interacting with one or more blockchains. I've written an initial primer on Web3 here → [Web3 :: An Introduction to the New Internet \(Book Draft\)](#)

BanaynDAO itself, for example, has on-chain voting and treasury management, which you can view [here](#).

In April 2022, BanyanDAO hosted an all-day Web3 Product Manager Training Day where we had product managers from top Web3 companies/communities teach us about things like tokens, NFTs, DAOs, protocols, blockchains, and more. You can watch those videos [here](#) on BanyanDAO's website (scroll down a bit and you'll see them).

Furthermore, the best way to "Learn web3" is - beyond watching videos and reading books/articles/tutorials - join a DAO, learn how to write smart contracts (we'll cover this in the "Code" section below), and participate in blockchain and/or NFT communities that fit your

interests. By participating in these projects and communities, you'll gain a much better understanding of "Web3 product skills" than by reading/watching material out there (ideally, do both!)

## Code

Learning to build web applications - which will be the initial scope of this section - enables you to create value in an extremely powerful way (e.g. enough to ask people to pay for your software, and/or pay to access the users of your software).

**Obviously this is an overwhelming amount of work, so just start wherever you feel comfortable and ask questions in Discord or Slack. We're here to help!**

- Know your computer/OS well enough to install and run Ruby/Rails/Postgres/Redis/etc... locally (e.g. w/ Homebrew for MacOS)
  - Visit [this GoRails page](#) and select your operating system.
  - Follow the tutorial to install Ruby, Git, Rails, and PostgreSQL on your machine
- Shell / command line
  - [Getting to Know the Command Line](#) (Tutorial)
  - [Absolute BEGINNER Guide to the Mac OS Terminal - YouTube](#)
  - <https://www.codecademy.com/learn/learn-the-command-line>
- IDE (VSC, Rubymine, etc..)
  - Download <https://code.visualstudio.com/> (it's free and has become an industry standard)
- Git / Github (PR & code review etiquette and such)
  - Get yourself an account at [GitHub](#) if you haven't yet. You should have done this as part of your setup
  - "Git and GitHub for Beginners Tutorial" on YouTube <https://www.youtube.com/watch?v=tRZGeaHPoaw>
- Ruby
  - [Ruby in 20 Minutes](#)
  - "Ruby Programming Language - Full Course" (4hrs) [https://www.youtube.com/watch?v=t\\_ispmWmdjY](https://www.youtube.com/watch?v=t_ispmWmdjY)
- Core HTML / CSS / JavaScript things of course
  - [Learn HTML](#)
  - [Learn CSS](#)
  - [Learn Javascript](#)
- Core Rails things (routing, controllers, models, views, etc...)
  - [Ruby on Rails Tutorial](#)
  - Rails for Beginners Part 1: Installing Ruby on Rails <https://www.youtube.com/watch?v=wkNR1hG4yOk>
- Testing w/ [RSpec](#)
- [StimulusJS](#)
- [ViewComponent](#)

- [Turbo](#)
- [Linting / Prettier](#)
- [CI / CD](#)
- Basic DevOps w/ a cloud provider (like [AWS](#) + [Render](#), or [Heroku](#))
- Monitoring ([Sentry](#)/Scout/etc..)
- [TailwindCSS](#)
- [Docker](#)
- [Caching with Rails](#)
- How to best look up things w/ Google and ChatGPT when you are stuck

(Advanced) Web3 code

- [Learn Solidity](#)
- [Learn Rust](#)
- [Learn COSMWasm](#)

Solidity is the main programming language in the Ethereum ecosystem (which includes “Layer 2s” like Polygon, Gnosis Chain, Optimism, etc...).

**Questions?** Feel free to “suggest” a question below if it would be helpful for others and/or ask us a question directly on Discord and/or Slack.