

Software Engineer

So you want to become an engineer?



About Me



Where are you from?

Mississauga, ON. Originally from a country full of happy people no matter the situation....😌😌



Past experience?

Experienced dishwasher @ wonderland. Kidding!



Academics?

CS deg at an Ontario west coast uni. Lots of self learning videos too!



Where motivates you?

Executing a vision and influencing others to succeed.



When did you start?

Started my software engineering journey in 2009

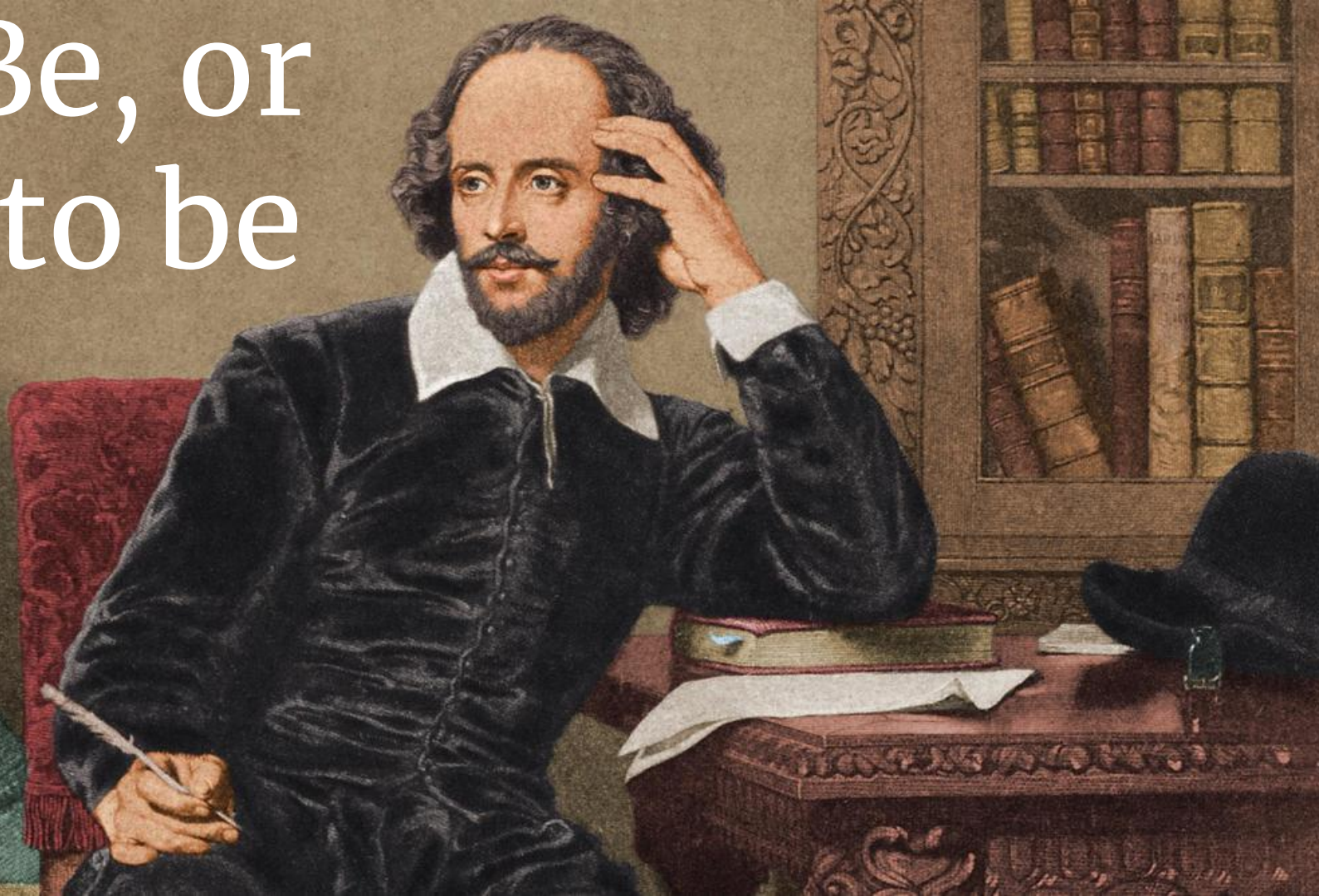


Favorite hobb?

Music makes me lose control



To Be, or
not to be





onlinegifts.com

SO YOU ARE AN ENGINEER....



THAT'S COOL!

The Journey

- Year of initiation
- Started as a business analyst - (not sure what I was analysing but more like data entry)
-



Motivation – why software??

Why did I become a software engineer?

- Machines are obedient??
- I enjoyed troubleshooting and solving problems
- Love to create
- I am comfortable with human and I enjoyed working with them (maybe not all)
- Psst! – It pays well.....

The Becoming...

1. Pick one – there are different types of software engineer

Major categories are Backend, Frontend, Testers, DevOps, Security & Full stack engineers. Pick what comes natural to you.

2. Degree are nice but not required

You really don't need a CS degree to become a software engineer, however it does provide basic foundation to become really good at it.

3. Starting from zero to hero

There's plenty of resources to help get started. Pick any programming language that make sense to you.

4. Do it yourself

Start right from the comfort of your home. What you need are your pretty fingers and a computer (well and some resources). Great softwares are build in the garage.

5. Attend coding conferences

This is a great way to network and meet like-minded engineers. You'll get lots of valuable information.

6. Certifications

This is a rather quick and easy way to get into the software engineering industry.

Do not underestimate the power of bootstraps

**Take online
courses**

**Sign up for
code camps**

**Certification
programs**

“bootstrapping usually refers to the starting of a self-sustaining process that is supposed to proceed without external input.” - user78203 🤔

Online Courses



PLURALSIGHT

codecademy

coursera

SKILL
Share.

There are so many online resources out there for software engineering class and programs.

How do you pick which one is right for you?

```
isVideo = ( (type === "image") || ($.index < extension) || ($.index < extension) ) || ($.index < extension)
isUrl = ( (type === "url") || ($.index < extension) || ($.index < extension) ) || ($.index < extension)
isElement = ( (type === "element") || ($.index < extension) || ($.index < extension) ) || ($.index < extension)
isObject = ( (typeof Subject === "object") || ($.index < extension) || ($.index < extension) ) || ($.index < extension)

// Check if boxer is already active, return false
if ($("#boxer").length > 1 || (isImage || isVideo || isUrl || isElement || isObject)) {
  return;
}

// Kill event
_killEvent(e);

// Cache internal data
data = $.extend({}, {
  $window: $(window),
  $body: $("body"),
  $target: $target,
  $object: $object,
  visible: false,
  resizeTimer: null,
  touchTimer: null,
  gallery: {
    active: false
  }
});
```

Code Camps



If you have the (\$\$\$) budget and time. This is a viable option. Boot Camps usually provide hands on experience.

It can be comprehensive and it will require your commitment!

Certifications



Once, you've determined the direction you want to take then find a specialized certification programs in that field.

Certifications get outdated really quick but they remain an integral part of the tech industry.

It can also be used as a source of proof in a professional organizations to validate your knowledge and ability.

Getting the experience

- Volunteer your service (work for free 🤔😁)
- Hands on personal project
- Accept local gigs, even the free ones.
- Practice! Practice! Practice!

- Get an intern placement/position
- Showcase your personal projects
- Join open source community and contribute

- Pursue projects and opportunities you can learn from.
- Pursue projects you can grow from.
- Hands on personal project

There are lots of ways to be successful and it's defined differently for everyone.



Resources – Learning

Coursera

<https://www.coursera.org/>

Udemy

<https://www.udemy.com/>

Lynda

<https://www.linkedin.com/learning/>

Skillshare

<https://www.skillshare.com/>

Pluralsight

<https://www.pluralsight.com/>

Codecademy

<https://www.codecademy.com/>

Treehouse

<https://teamtreehouse.com/>

EdX

<https://www.edx.org/>

Resources – Coding

Stackoverflow

<https://stackoverflow.com/>

Codewars

<https://www.codewars.com/>

Git

<https://github.com/>

<https://bitbucket.org/>

<https://about.gitlab.com/>

Codepen

<https://codepen.io/>

IDEs (Integrated Development Environment)

Lots of preference, here's a few - your choice!

VS Code - <https://code.visualstudio.com/>

IntelliJ - <https://www.jetbrains.com/idea/>

Atom - <https://atom.io/>

What's Next?

PaaS, DevOps tools.....

Resources – Keeping up to date

Hacker News

<https://news.ycombinator.com/>

Follow social media engineering trends

Psst! engineers love twitter!

Tech Conferences & Meetups

There are abundant tech conferences out there. Most companies usually host their own conference e.g. Google IO, Twilio signal, CES, Facebook F8 and the local ones too!

Review Code

You can find some in the aforementioned ^^^ Git resource.



Consulting

The risks, the perks and the lesson learned.

BEN-ERIS Technology Corp



The risks

You are your own employee -

“No work, no pay”

You're liable for things -

damages, health, thefts, you get the idea.

Job security

As an IC, your gig can be cut anytime and severance pay does not exist in this world.

No client (employer) benefits -

Employer does not provide benefit, bonus and career advancement that comes with been a full-time employee.

The perks

The benefits outweighs the risk, if you play it right

You are your own boss

Usually would set your pace and the terms of your working conditions.

Choose the work that you like

Earn high, pay low

You'll probably earn more than regular employees and may pay lower taxes depending on how your business is setup (*"the power of incorporation" - rich dad, poor dad*).

New experience

Each client have different task

You become ~~the expert~~ knowledgeable

Most like you'll be versatile in a lot of things, hence the expansion in knowledge and the possibilities to work in diverse engineering spaces. Also mean you'll be a good fit for most job postings.

Psst! I get calls and emails almost every day from companies and headhunters.

Lesson Learned

- You must know your worth!
- Say yes to every project, even if you don't know how to do it.
- Having a structured plan and setup is crucial for success. Freestyling usually don't work
- Time management skill is a must have.

Thanks!



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