# Introduction

Tuesday, April 8, 2025

9:08 PM

#### **Useful Tools:**

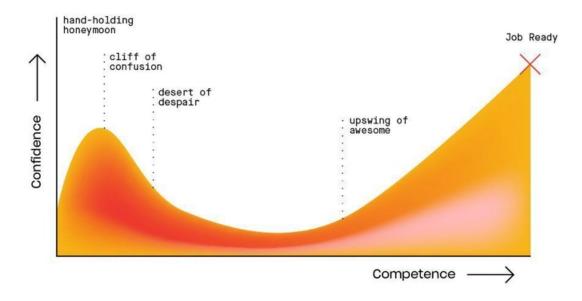
- Comand line interface (CLI)
- Stack Overflow
- Git
- GitHub

Note: people tend to care more about what you've actually built than how you got there

### Coding in a nutshell:

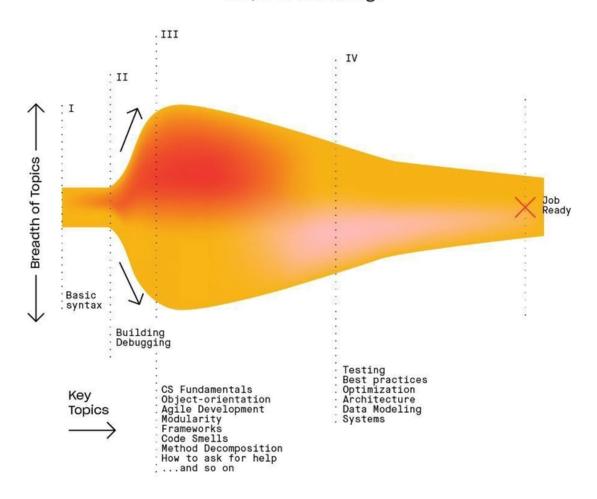
- Where am I? Hopefully, the upswing of awesome.

## Coding Confidenct vs Competence



## Scope of knowledge:

#### Scope of Knowledge



Note: this stuff takes patience and a lot of time and work

#### After foundations:

- Seek and follow best practices for programming. You need to understand the difference
   Best practices are a major difference between hacking on your own and building product
- Check your assumptions because you've probably skated by with some gaping holes in you had. You need to diagnose and fix these holes.
- Tackle the unsexy skills that are rarely addressed but highly important for transitioning in things like testing, data modeling, architecture and deployment which are really easy to l fundamental to good development.
- Get feedback!!!

### **Web Developer Categories:**

between a solution and the best solution. ion quality code in a real job setting. our knowledge that you didn't even know

to a professional setting. This includes preeze past but which are totally

 Front End - front-end developers need to be proficient in web frameworks and libraries I ReactJS, and EmberJS

Bootstrap excels in creating responsive layouts, while ReactJS is renowned for building high-pe

Node.js is a powerful tool for front-end developers, primarily used for managing dependencies tasks. It enhances the development workflow when using frameworks like ReactJS or AngularJS

Ajax (Asynchronous JavaScript And XML) is a widely used technique for using JavaScript that all downloading server data in the background.

2. Back End\* - back-end developers use server-side languages like Node.js, Go, PHP, Ruby, I

They also use tools like MySQL, Oracle, and SQL Server to find, save, or change data and serve i code.

The back-end of a website consists of a server, an application, and a database.

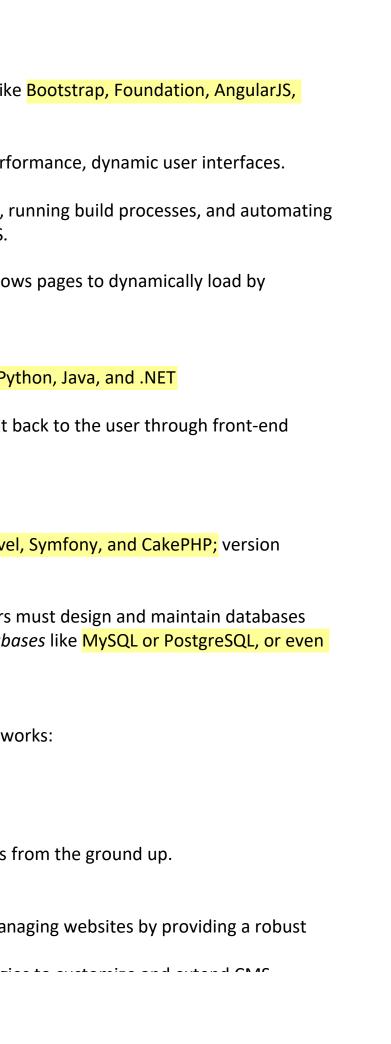
Job openings for back-end developers often require experience with PHP frameworks like Laray control software like Git; and using Linux as a development and deployment system.

One of the most critical aspects of back-end development is *database management*. Developed that store data securely and retrieve it quickly. This often involves working with *relational data*NoSQL databases like MongoDB for more flexible data models.

- 1. Full Stack full stack developers should be knowledgeable in every level of how the web
  - a. setting up and configuring Linux servers,
  - b. writing server-side APIs,
  - c. diving into client-side JavaScript,
  - d. and applying a "design eye" to CSS.
  - e. This comprehensive understanding allows them to build complete web application

Mastering Content Management Systems (CMS) is a key component of the full stack skill set.

- A CMS, such as WordPress, Joomla, or Drupal, streamlines the process of building and mapped platform that handles everything from content creation to user management.



- Full-stack developers leverage their knowledge of both front-end and back-end technolo
  functionalities, crafting tailored solutions that meet specific business needs.
- Whether it's developing custom plugins or optimizing database interactions, the use of a deliver comprehensive, end-to-end web solutions.

Knowledge of both client side and server side development is crucial. This is a "jack of all trades time and practice in both front and back end.

Note: keep a growth mindset. Intelligence can be developed and it is not fixed. Just because I dhave no room for improvement. It's not that I'm not smart enough, I just need to try again.

Do NOT use ChatGPT in any part of this process!!!

Another note: do not keep extensive notes!! This note document will likely be the biggest one.

| gies to customize and extend Civis          |
|---|
| CMS empowers full-stack developers to       |
| s" position that only occurs with extensive |
| on't get it on the first try doesn't mean I |
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