Full Stack Development Pre-course handbook

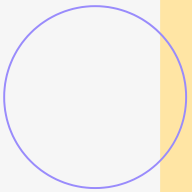A GUIDE TO START THE PREPARATION
FOR YOUR BOOTCAMP JOURNEY

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WHAT'S INSIDE

1 / Welcome

Congratulations on taking the next step in developing your technical skill set. All of us at CodeOp are excited to have you onboard for our Full Stack Engineering course. We've provided this Pre-Course Handbook to help you understand and prepare for what's coming next. By taking the time to carefully go through it, you'll ensure that you're getting the most out of your course. Please make sure to go through all the suggested activities before the start of the programme.

WE ARE A COMMUNITY

2 / Problem solving: Attitude & Mindset

As with any skill that has a steep learning curve, software development requires patience and open-mindedness. Even the most talented software engineers experience feelings of dread when things don't work out as planned—especially if they don't know why things aren't working out. As you enter the various stages of solving web development problems, it will be essential that you learn to recognise and tame whatever negative emotions arise.

3 / Overcoming imposter syndrome

Almost all developers will admit to having experienced "Imposter Syndrome" at some point in their careers. Imposter Syndrome is the anxiety that one is not as capable or as deserving as one's peers. If you find yourself experiencing Imposter Syndrome, don't worry: we've all been there! Luckily, there are countless resources online that can help you through it. We recommend this excellent article from FreeCodeCamp.

The main takeaway is this: Part of your learning will involve developing a growth mindset rather than a fixed mindset. People with a fixed mindset often believe that their abilities are limited to those that they were born with. Learning to have a growth mindset means understanding that skills can be developed through hard work and patience. Having a growth mindset will allow you to take on challenges that may have initially seemed out of reach.

▶ You've got this

4 / The components of a web development team

A typical Web Development Team has several roles, each responsible for an important part of the development process. Throughout the bootcamp there will be regular speaker sessions from industry experts to help you better understand the day-to-day of these various roles

Typically, these roles are as follows:

Product Manager
Project Manager
Software Developer
— Backend Developer
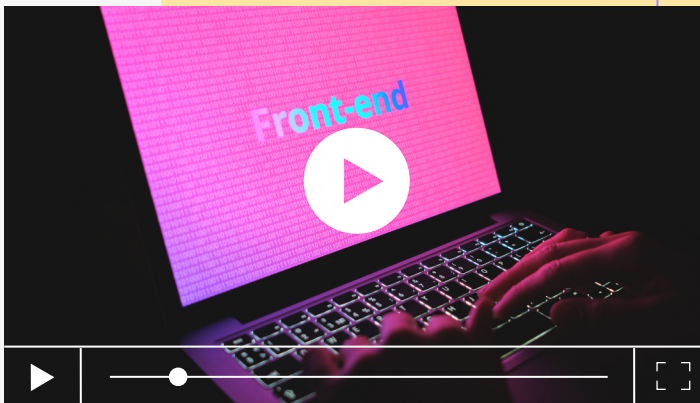**— Frontend Developer**
— Full Stack Developer
Quality Assurance (QA) Analyst
User Experience (UX) Analyst
DevOps

5 / Backend and Frontend

There are three types of web developers: Backend, Frontend, and Full Stack. Many online resources, such as this Hacker Noon article, nicely summarise the differences. Please, watch the videos below for a better understanding of each role:

6 / Precourse

BEFORE YOU START THE PRE-COURSE WORK, PLEASE PRESS
THE PLAY BUTTON BELOW TO WATCH THE VIDEO

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THE ROLE OF THE PRECOURSE IS TO ENSURE THAT YOU HAVE THE MATERIALS AND BASIC SKILLS THAT YOU NEED TO SUCCEED IN THE COURSE. THESE WILL INCLUDE FOUNDATIONAL SKILLS IN THE FOLLOWING:

GIT
Arguably the most important tool of every software developer, Git allows us safely to maintain a history of code changes across teams of any size

JAVASCRIPT BASICS
The programming language of the web

HTML/CSS
Behind Every Web Page

Getting Started

An non-exhaustive list of local communities

LGBTI CENTER BARCELONA

GAG

OBSERVATORI CONTRA HOMOFOBIA FELGBT

BLACK BARCELONA CENTRO PANAFRICANO AFROFEMINAS

AFROPEAN

DESIREE BELA ATC LIBERTAD CULTURA TRANS ACATHI

COCEMFE CERMI

MUM ABROAD BARCELONA BARCELONA MAMAS

WOMEN TECHMAKERS BARCELONA WOMEN WHO CODE

BARCELONA ADAJS BARCELONA

CODEBAR BARCELONA

BARCELONA FRONT-END DEVELOPMENT MEETUP JS CODERS

JAVASCRIPT BARCELONA

BARCELONA LGBT+TECH

SOFTWARE CRAFTERS BARCELONA

BARCELONA FREE SOFTWARE

7 / Conclusion

You are in good company.

Congratulations again on choosing CodeOp to support your educational journey through tech. Get ready to dive headfirst into an intensive-yet-supportive boutique bootcamp experience. Not all parts of this course will be easy, but throughout our time together, we promise to offer you the most comprehensive education possible.

Happy Hacking!