Introduction to Front End Development Course

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Agenda

- Software development : What | Why
- Software jobs in 2022 and beyond
- Front End Development : What | Why | How ?
- Career trajectory of FED
- Deep dive of this FED Relevel course
- Understanding the structure of Relevel test
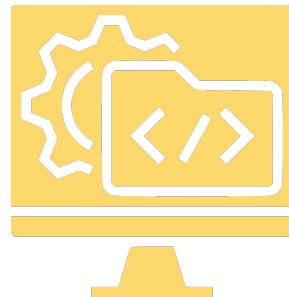- Get your doubts clarified - AMA

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Everyone Should Know How To Program A Computer, Because It Teaches You How To Think !

-Steve Jobs

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Software Development | What ?

Software

It's basically the combination of instructions and data that tells the computer how to operate/execute
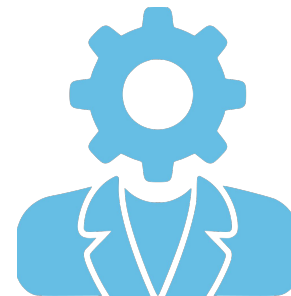
Activities involved for creating, designing, deploying and supporting above software is called as **Software development.**

Software Development | Why ?

Motivations :

- It brings great power. One can literally make anything, from a simple blogging website to a complex search engine
- Allows you to make your product/ideas reach all nooks and corners of the world.
- To become a software developer, neither does your age or self-perceived intellectual capability matters. So literally any one can become a Software developer. All it takes, is a computer, internet and the interest
- And the most important, a lot of money !!!! Software development jobs are one of the highly paid job offerings

Software jobs in 2022 and beyond

How software jobs has evolved in the last couple of years ?

Whole world has witnessed the unprecedented impacts of Covid-19. It has badly impacted almost all the countries and their economies. It had the similar impacts on the IT sector as well. Few of the major changes that happened in the last couple of years have been :
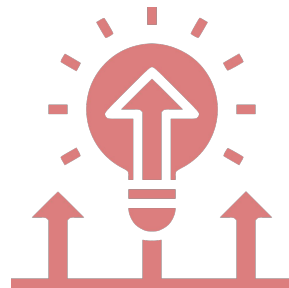
- Moving from offline to Online recruitment/interviews.
- Work from home getting well accepted.
- Distributed team and remote communications.

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Software jobs in 2022 and beyond

High points of Software jobs in these testing times :

- When almost all the sectors saw decline, Software jobs almost remained immune to this Covid disruptions
- Software industry is built on the principle of change. When the whole world was going through the extremely tough phase of change, it was comparatively easy for the Software based jobs to adapt.

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Software jobs in 2022 and beyond

Job prospects :

- Since most of the companies have realized the potential of the internet in this era of multiple lockdowns, more and more companies are getting online, meaning more software development opportunities.
- Demand for software developers has never been this higher. And this will continue for many coming years
- Whole world has accepted the possibility of remote working. This has opened global opportunities for everyone. What it means is, now we can sit in a small town in India and still work for an MNC operating from another part of the World.

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Software jobs in 2022 and beyond

We know, there's a lot of opportunities in coming years, but is it really easy ?
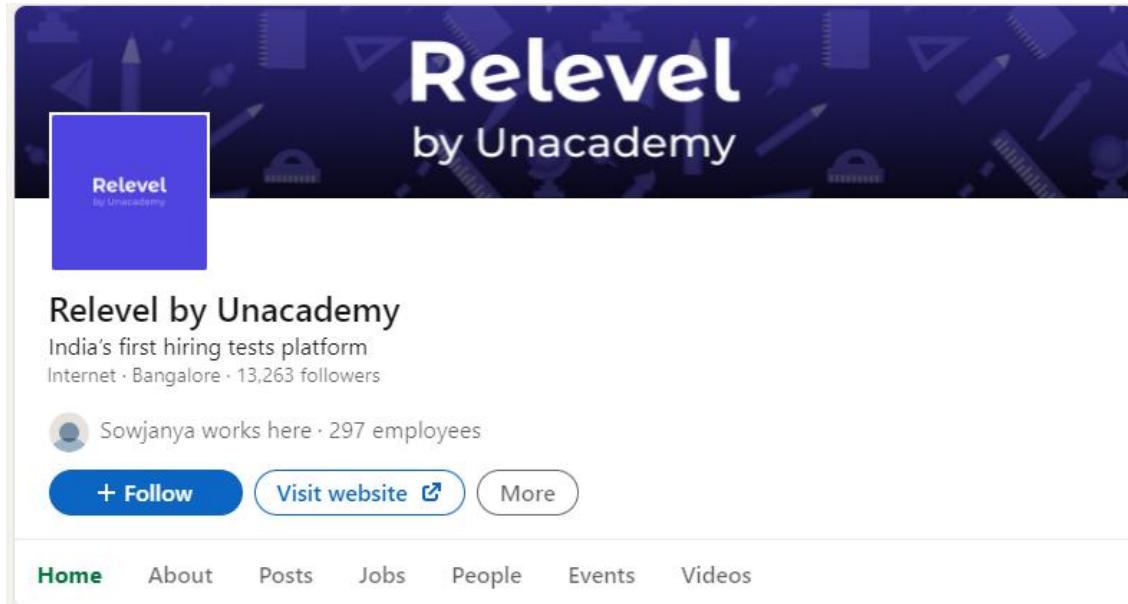
Challenges :
- Very high competition
- Evolving technologies
- Lack of awareness about the right technologies

So we need to have what the industry demands to be successful in 2022 and beyond !

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Front End Development

It's mostly used in the context of the Web Applications, for example : www.relevel.com

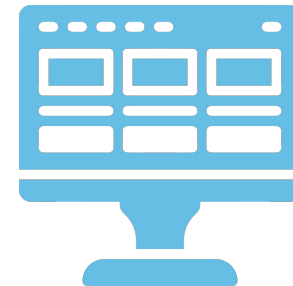**#180DaysofPurpose**

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Front End Development

A web application comprises of mainly three parts :

- Front end
- Back end
- Database

A front end development requires a good understanding of all these three facets of a Web Application

Front End Development
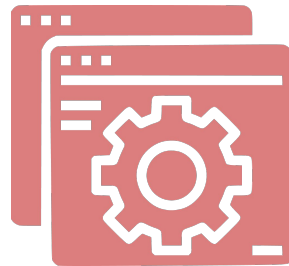
Why front end development is in so much demand ?

- Companies get more from each employee, if they hire a FE engineer. So hiring a FE Engineers are the obvious choice for many companies
- You get more employable, as you can easily fit in any kind of role be it FE or BE
- Better understanding of the complete Web Application development
- You are only limited by your imaginations. Power to build anything and everything

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Front End Development
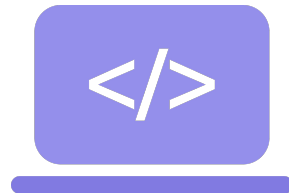
What is Front End Development?

- A Front End Development is concerned with the appearance of a website, all visible website features are created using front end development.
- Front End is what you see and interact with user it is also called client side of application
- It includes everything that the user can see such as buttons,images,colors, graphs, navigation menu etc

Front End Development

What does a Front End Developer do?

A Front End Developer who uses programming languages such as HTML,CSS,Javascript to implement web designs.The front developer is incharge of design and appearance. When you visit any website, you can see how front end developers work in navigation layout and how websites look different on your phone.

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Front End Development

How to become a Front End Developer?

- Learn the essential coding languages such as HTML,CSS, JS these are the building blocks of front end development
- Responsive web design, It is important to create web pages that look good on devices
- Learn Front end frameworks like Javascript framework, Angular, CSS. These are essential part of modern front end web development
- Version control systems like git , the most popular distributed version control system it's mainly practice of tracking and managing changes to source code
- Building Projects, Start designing a static website, it gives hands-on experience and better understanding of concept

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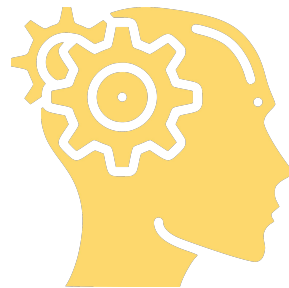**Relevel**
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Front End Development

In this course we have got you all covered. One of the World's best course to accelerate your career in the world of Front End Development
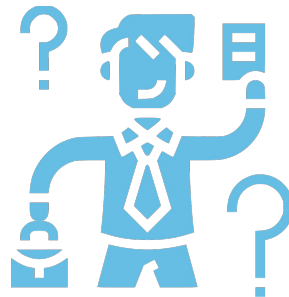
Front End Development

Front End Developer Skills

- HTML,CSS, Javascript and JQuery are the fundamental skills in the field of front end development
- Javascript and CSS frameworks
- Responsive design is an important part of front end development
- Version control, Git and GitHub
- Testing and Debugging
- Search engine optimization and operational techniques
- problem-solving, communication and interpersonal skills

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Front End Engineer career trajectory

- Huge demand for the freshers and mid experience people for the front end development roles
- Easy to adapt in any company for the FEDs
- Hot favorites in the world of startups.
- Almost every company has the openings for the FEDs
- Higher demands means higher salary. FEDs are being highly paid in the industry across the globe.
- Front end development is an excellent option, it is in high demand pays well and provides a great deal of flexibility even with the pandemic there are still a lot of openings for front end developers as company's technical needs grew

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Front End Engineer career trajectory

A general FEDs career growth in a company might look like below :

FED I (0-2 years) -> FED ǁ (2-5 years) -> Senior FED (4-7) -> Staff Engineer (6 -11) -> Senior Staff (10 +) -> Distinguished Engineer

* This is very generic and just for reference. The designation might change from one company to another
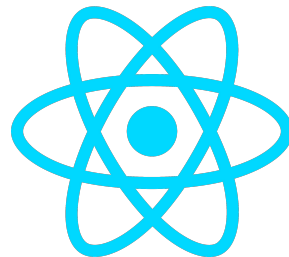
What's in store, in this course ?

- In this course we have got you all covered. One of the World's best course to accelerate your career in the world of Front End Development
- It doesn't matter what your college major was, or where you are currently working. Neither does your age or self perceived intellectual capability. With our world class industry vetted curriculum, literally anyone can learn to program and succeed as a FED
- The course starts with the basics and takes you deep inside the intricacies of software development. We believe in learning by doing and in the process provides you the first hand experience of solving industry problems

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Front End Development

Why choose React?

- More Job Opportunities
- Scaling up your career as a developer
- Building better projects and building lots of things faster
- Its must love and use web libraries among professional developers.Every successful business uses react and is looking for new talent daily
- React is a javascript library that enables developers to quickly and efficiently build interactive and dynamic user interfaces with minimal coding

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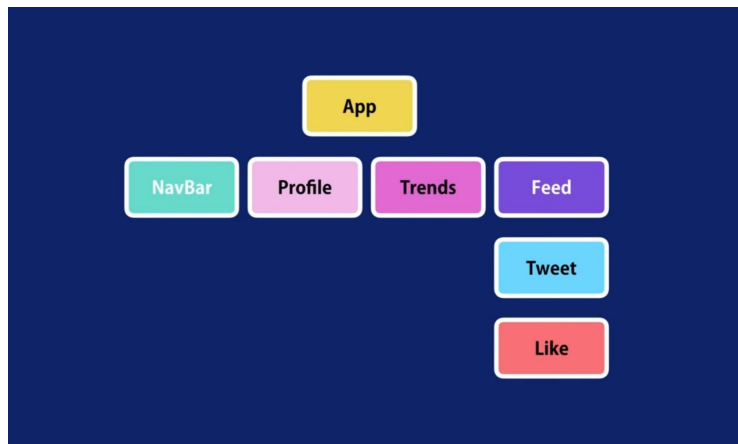by Unacademy

Front End Development

What is React?

- A React is an open source javascript library is used for building fast and user interactive interfaces
- It was developed in facebook at 2011 and currently its most popular react library for building user interfaces
- The heart of all react applications are components, so when building applications with react, we build a bunch of independent,isolated and reusable components and then compose them to build complex user interfaces
- Every react application has at least one component which is referred to as the root component. This component refers to inter application and contains other trail components. so, Every react application is essentially a tree of components.

Front End Development

For example:

Lets imagine we want to build an application like Twitter, we can split these pages into components like navbar, profile, trends and feed.

Now, feed includes several Tweet components and includes a like component which we can reuse on other pages and even different applications.

Front End Development

How can it be implemented?

- In terms of implementation, it can be typically implemented as an javascript class that has some state and render method
- The state here is the data that we want to display when the component is rendered and rendered method is responsible for what the UI should look like
- The output of this render method is a react element, which is a simple plain javascript that maps with DOM element

```
Class Tweet {
        state = {};
        render ()  {
     }

                    }
```

Flow of the FED course

Programming Fundamentals - *Helps to get you ready for the course*

⇩

Ecommerce Application - *Learn by doing End to End Development*

⇩

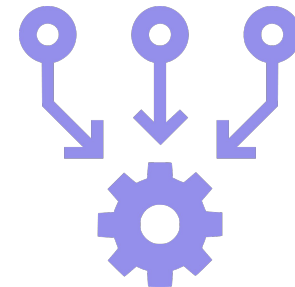**CRM Application** - *Learn by doing End to End Development*

⇩

Movie Booking Application - *Learn by doing End to End Development*

Flow of the FED course

Along the process learn :

- Computer fundamentals
- Practical understanding of database
- Data Structure and Algorithms
- System Design
- Resume preparations
- Interview readiness
- Relevel test preparation

Relevel - Front End Development Test

How to get your dream job?

1

Book a Test
Explore career opportunities and schedule a Test as per your convenience

2

Take the Test
Score more than 700 out of 1000 in the Relevel Test to qualify for placements

3

Interview with companies
Once qualified, get auto-matched with the best companies and start interviewing immediately

4

Get hired
Receive multiple job offers by leading companies and choose the one best suited to your career goals

Relevel - Front End Development Test

Skills required :

Programming Fundamentals

Test your programming fundamentals like arrays, logical operators, conditional statements, etc.

Data Structures and Algorithms

Test your problem solving skills using lists, stacks, trees, queues, etc.

Code Quality

Showcase your ability to write easy and understandable code

HTML, CSS, and React.js

Showcase your understanding of frontend tools

Relevel - Front End Development Test | Phase 1

Phase - I   Get 150+ out of 300 to qualify for Phase II

ROUND 1   ✓ 150 Marks 🕐 45 mins

Back to basics   Programming Fundamentals

An MCQ round of 30 questions that tests your
knowledge on programming fundamentals

ROUND 2   ✓ 150 Marks 🕐 90 mins

Assess your algo   Data Structures and Algorithms

A DSA round with two problems to test your
coding skills in a high pressure situation

Relevel - Front End Development Test | Phase 2

Phase - II   Get 700+ out of 1000 to qualify for Relevel Placements

ROUND 3   ✓ 200 Marks   🕐 120 mins

Create your feature

A round designed to test your ability to build
frontend features for an existing web application

Frontend Development   Code Quality

ROUND 4   ✓ 200 Marks   🕐 90 mins

Optimize your feature

A round designed to test your ability to modify and
expand the feature you have already built

Frontend Development   Code Maintenance   Communication

ROUND 5   ✓ 300 Marks   🕐 60 mins

Face the interview

An interview round with an experienced engineer on
your ability to solve real-life problems for users.

Frontend Development   Programming Fundamentals

Communication

Ask Me Anything .....

"If you think education is expensive — try ignorance."

Thank you!