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Front End Development Training Program

Front-end web development, also known as client-side development is the practice of producing HTML, CSS and JavaScript for a website or Web Application so that a user can see and interact with them directly. The challenge associated with front end development is that the tools and techniques used to create the front end of a website change constantly and so the developer needs to constantly be aware of how the field is developing.

Basic Requirements

- English knowledge is required
- Knowledge of computer programming languages is huge plus

Benefits

- Hands on practice on all topics covered
- Learn best practices to write clean, performant, and bug free code
- Create various projects to acquire useful front end development skills
- Learn React + Redux to build rich front-end applications
- Learn modern technologies that are being used behind tech companies
- Gain experience using Front End Web Development Tools
- The program covers end to end DevOps with SDLC cycle, from planing to deployment
- Successful graduates will receive graduation certificate
- Successful graduates will be recommended to partner companies for employment

Features

- 4 month
- 32 sessions, 64 hours
- Slack & LMS
- In Class + Zoom option
- AZ & ENG

Syllabus

General Introduction & HTML5

- Welcome!
- Getting to know each other
- Objectives, Goals
- What will we learn here?
- Why Front-End?
- What to expect? Challenges!
- Introduction to Web
- Introduction to HTML5
- Setup

- Elements
- Attributes
- Headings
- Paragraphs
- Text Formatting
- Quotation
- Comments
- Images
- Tables
- Lists
- Block & Inline
- Iframes
- Class & ID
- Head
- Semantics
- Video & Audio
- Forms
- Input Types
- Div & Span
- Anchor
- SVG & Canvas
- Website Structure
- How to advance further?

CSS3

- Introduction to CSS3
- Setup
- Inline, Internal, External CSS
- Syntax
- Selectors
- Colors
- Comments
- Backgrounds
- Box Model
- Margin
- Border
- Padding
- Width & Height
- Outline
- Text
- Fonts
- Link styling
- List styling
- Table styling
- Display
- Position
- Z-index
- Combinators
- Pseudo- class
- Pseudo-element
- Attribute Selection
- !important

- Opacity
- Gradients
- Transitions
- Animations
- Shadows
- Media Queries
- Flexbox
- Sizing
- Responsiveness
- How to advance further?

JavaScript & Git & CI/CD

- Introduction to JS
- Setup
- Syntax
- Input, Output
- Variables, let, const
- Comments
- Operators
- Data Types
- Functions
- Objects
- String
- Number
- Array
- Events
- Dates
- Math
- Boolean
- If statement, ternary
- Switch case statement
- Loops:for, for in, for of, while, foreach
- Sets
- Maps
- Type Conversion
- Error handling
- Scope
- Hoisting
- Strict mode
- This keyword
- Arrow functions
- Execution Context
- Arrow functions
- Object Oriented JavaScript
- Classes
- Prototypes, Inheritance
- Callbacks
- Asynchronous
- Promises
- Async/Await
- Imperative, Declarative
- Functional JavaScript

- Pure Functions
- Closure
- Map, Reduce, Filter
- DOM
- BOM
- Cookies, localStorage, sessionStorage
- Currying
- Spread & Rest operators
- Destructuring
- Web APIs
- JSON, XML
- AJAX, XMLHttpRequest
- VCS & Git Basics
- CI/CD pipelines
- HTTP Protocols
- Security: XSS, CORS, DDoS, CSRF, CSP
- Debugging & Console
- How to advance further?

React & Redux

- Introduction
- Why React?
- Other Alternatives
- Environment Setup
- Folder Structure
- NPM, Package.json
- JSX
- Components
- Props
- Class based components
- State in class component
- Lifecycle in class component
- Events, Handling forms
- Rendering Lists
- Conditionals
- Styling
- Functional components
- Hooks
- State in functional component
- Lifecycle in functional component
- useCallback Hook
- useMemo Hook
- Context API
- useContext Hook
- Ref for DOM Access
- Custom Hooks
- Navigation, React Router
- React Fragment
- React Portals
- API requests
- Redux
- Async Redux (Redux Thunk)

- Authentication
- Debugging
- Deployment
- Webpack, Babel
- React Testing
- How to advance further?

Interviews & Further assistance

- Where to go from here?
- Creating CV
- Creating digital footprints (Linkedin, Medium, Github, Portfolio Website)
- Applying jobs (Where and How?)
- Interviews
- Mock Interview (Example)
- Course Wrap up & Congratulations