

Having Fun

BUILDING WEB APPLICATIONS

SYLLABUS

Front-End 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 it directly through the web browser. These technologies are a useful toolset for developers, as the User Interface is a necessary component for all software, empowering developers to present information to the user in a compelling way.

Additionally, with the dawn of new technologies like Node.js, the same JavaScript code can run on both the web browser and the server, giving rise to new ways to build modern web-applications with less code and less time! Experience the advantages of building an app using JavaScript frameworks through this course, so that you may potentially use them in future projects.

This course focuses on hands-on coding rather than the theoretical. Students should look forward to building a web application from scratch, and hosting it online for the world to use at the end of the course.

OUTLINE

16 December

- Understanding websites VS web applications - a primer on **Single Page Applications (SPA)**
- Introduction to **CSS Frameworks**, learn how to read the documentation and make use of ready-made components
- Creating responsive web pages using a grid system
- **JQuery** - understand how it extends javascript for manipulating DOM elements and adding interactivity to web pages
- Understand server side templating (PHP, JSP etc) VS client side templating (using Mustache, Handlebars etc)
- Learn about **JSON** and how it can be used as a data exchange format
- How to make use of **3rd party libraries/APIs** (examples include using simple plugins to generate charts/progress bars)

17 December

- Introduction to Full Stack Javascript
- Learn how to leverage the **Meteor.js framework** to build real-time apps
- We will be learning how to port over our app from Day 1 to Meteor
- Packages - finding the right resources to maximise developer productivity
- **Taking your app live** - How to make use of free hosting services

Last Updated 2 December 2015