DO YOU WANT TO BECOME A WEB DEVELOPER?

Oulu University of Applied Sciences offers web developer training to you. You will learn to design and implement user interfaces and actions for web applications concerning both laptop and mobile devices. The training focuses on web user interface programming that is called front-end programming.

What
The basics of front-end programming and project management, 10 cr
The study module focuses on the basics of front-end techniques including html, css, and JavaScript. Project management covers the basics of agile methods and project management tools.

Advanced front-end programming, 10 cr
The study module covers various front-end frameworks (e.g. Bootstrap, Foundation) and JavaScript libraries (e.g. jQuery, Ajax, React) that are used in the development of web services. The study module contains also the basics of databases.

Design and implementation of a web service, 10 cr
The study module covers the design and implementation of different web services using content management systems and eCommerce platforms. The study module contains also service design which is necessary to understand user experience. Additionally, the study module familiarizes the participants with rights to use digital materials, licenses and the GDPR.

To whom
The applicant should know basics of programming using any programming language. He/she should be eager to develop his/her knowledge in the field of web programming.

Why
After the training, the participant is ready for the work in the field of software development. The companies get the software experts they need.

Schedule
The training will begin in September 2019 and the duration is 6 months.

Implementation of the training
Study materials are mainly in English. The participants must have their own laptops. The teaching language is Finnish. The training is organized as contact teaching, but lectures are recorded for independent studying. The training contains both independent and team working.

How to apply and additional information
The application form is available on the website of H2C, https://h2c.fi. To get additional information about the training, you may contact the project manager.

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The H2C training is available in universities of applied sciences in the following cities: Oulu, Vaasa, Kokkola, Turku, Jyväskylä and Kajaani.

https://h2c.fi/
Preliminary schedule

1st implementation
The basics of front-end programming and project management
Advanced front-end programming
Design and implementation of web services
Practical training

2nd implementation starts in January 2020

The basics of front-end programming and project management, 10 cr

The participant can implement browser-based front-end applications and has knowledge about programming languages used in front-end applications as well as software projects in general.

The participant knows how to implement a well-structured web-page, create its content and layout using html and css languages. The participant understands the concepts of modern programming, control structures and can create user interfaces for a browser application. The participant can use JavaScript language to implement actions for a browser application.

The participant understands agile methods and knows how to use project management tools.

Advanced front-end programming, 10 cr

The participant familiarizes with libraries and frameworks which are used in web front-end development. The participant knows how to design and implement responsive web applications using e.g. Bootstrap, Foundation or other frameworks. The participant knows how to use JavaScript libraries and techniques such as jQuery, Ajax and React.

In this study module, the participant studies relational databases and their use in web services. The participant knows the concepts of a relational database and can understand database models. The participant can maintain the structure of database and data, and create queries using SQL language.

The participant must master the contents of the course the basics of front-end programming and project management.

Design and implementation of web services, 10 cr

The participant can implement web services using content management systems and eCommerce platforms. The participant familiarizes with different content management systems that are used for different purposes. The participant can modify and edit layout, design and functionality of a web service created with a content management system.

The participant knows how to use service design to get understanding of user experience when designing a web service.

The participant knows which third party materials can be used in web services. The participant knows digital material licenses and their use in web services. The participant understands the GDPR regulations and their impact on web services.

The participant must master the contents of the course the basics of front-end programming and project management

Practical training (6 weeks), 10 cr