



Școala
informală
de IT

Intro in IT – Curriculum

Școala Informală de IT

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Content

1. How does an application come to life?
2. Must-have skills for the journey
3. Can you become a developer?
4. ...or what about being a tester?
5. Show us your skills, we show you the path



1. How does an application come to life?

- Who are the craftsmen involved?
 - Roles and responsibilities
- How does an application grow?
- When are we ready to ship?

2. Must-have skills for the journey

- How computers work?
 - Computer architecture (memory, CPU, networking)
- Different devices - different operating systems!
 - OS architecture (processes, services, file system, security)
 - Windows vs Linux vs Android vs iOS
- What are applications made of?
 - Application architecture (Presentation, Business and Data Layers; Windows architecture; Server - client architecture)
- How does information travel through Internet?
 - WWW (HTTP/S, TCP/IP, DNS)
 - Web pages
 - URL and URI
 - Client side vs. Server side processing/rendering
 - Web services
 - Internet security
- What are your basic tools?
 - Web browsers (cookies, sessions, extensions/plugins)
 - Text editors with syntax highlighting
 - Image and video capture
 - Remote access
 - Chrome Inspector / Firebug / DevTools
 - Moqups, wireframes
 - Skype / Hangouts



3. Can you become a developer?

- Start thinking and speaking like an IT geek!
 - Programming basics
 - Pseudocoding and flow charting
 - Data structures and algorithms
 - Number systems and binary logic
 - IT Terminology
- Everything around us is an object - In machines' world this is called OOP
 - Inheritance, Encapsulation, Abstraction, Polymorphism
- You call it a website - this is a perfect mix between HTML, CSS, JS
 - HTML
 - CSS
 - JavaScript
- You like to keep your stuff well organized - So does an application using databases
 - SQL (basics and database entities, create db and tables using tools, NOSQL)

4. ...or what about being a tester?

- Apps crashing, monitors freezing, odd coloring screens, weird behavior... Are all these happening only to me?
 - What is software testing?
 - Types of testing - Manual vs Automated Testing
 - What is a bug?
 - What scenarios should be covered to test the application?
 - Tests execution.

5. Show us your skills, we show you the path

- Are you amazed of what you've found so far? This was just a glimpse! We help you choose the best path to follow: testing or developing applications
 - Great things come with hard-working
 - Everything is about mindset - What are the special ingredients?
 - The only constant thing in life is change