LEARNING PLAN
Working with Developers & DevOps

Many companies are embracing in-house coding, from citizen developers to full-scale enterprise application development, from creating macros within LoB documents to rich three-tier applications. It is critical for IT professionals to understand how developers work, how their code hangs together, and how best to support the needs of the business. With many developers moving to a DevOps-based approach, IT pros must understand the rapid deployment methods that can help speed release cycles. New tools are crossing the worlds of developers and IT professionals, such as containerization, scripting, cloud-hosting, and virtualization.

Areas of focus
• Overview of developer technologies
• Introduction to DevOps
• How to help developers do their job

Curriculum

VIDEOS FROM COURSE

Python Programming 6 hours

- Introduction to Python 17 min
- Python Basics 18 min
- Python Variables 22 min
- Input and Output 23 min
- If...Then...Else 20 min
- Loops 26 min
- Collections 25 min
- Functions 26 min
- Error Handling 19 min
- Basic Object-Oriented Programming 29 min
- Object Inheritance 22 min
- Installing PyQt (On Mac OS X) 12 min
- Installing PyQT (On MS Windows) 4 min
- PyQt Basics: Getting Started with PyQt 11 min
- PyQt Basics: Using Widgets 11 min
- PyQt Advanced: Working with Layouts 11 min
- PyQt Advanced: Handling Events 10 min
- PyPI and PiP 7 min
- Virtualenv 8 min
- Setting up a Simple HTTP Server 11 min
- Unit Testing 7 min
- Deploying Python on GCE 11 min
- Connecting to SQL Databases 12 min

Prerequisite Plans
INTRODUCTORY LEVEL
- Introduction to IT

Current Plan
FUNDAMENTAL LEVEL
- Working with Developers & DevOps

Possible Next Plans
ASSOCIATE LEVEL
- Virtualization Platforms & Implementation
- Cloud Concepts & Platforms
VIDEOS FROM COURSE

AngularJS  
- Introduction to AngularJS: 16 min
- Basics of AngularJS: 25 min
- Data Binding in AngularJS: 16 min
- Controllers in AngularJS: 17 min
- Managing Scope with AngularJS: 18 min
- Expressions and Filters: 20 min
- Extending Forms: 23 min
- Introduction to Directives: 21 min
- Advanced Directives: 26 min
- Dependency Injection: 16 min
- Providers, Services, and Factories: 16 min
- AngularJS Routing: 26 min
- Promises in AngularJS: 26 min
- AJAX With AngularJS: 29 min
- Animations: 21 min
- Unit Testing: 29 min
- Token-Based Authentication: 22 min
- Handling Events: 19 min
- Touchscreen Gestures: 16 min
- Application Architecture: 27 min

Microsoft Visual Studio 2012 70-480  
- Creating Flexible Layouts with CSS3: 25 min
- Creating Animated and Adaptive UIs with CSS3: 16 min
- Finding Elements using CSS and jQuery: 26 min
- Structuring CSS Files using Selectors: 14 min

Docker  
- Intro: 1 min
- Containers vs Virtual Machines: 9 min
- How Docker Works: 7 min
- Docker Installer (Deconstructed!): 6 min
- Create a Simple Dockerized App: 9 min
- Managing Containers and Images: 13 min
- Networking: 11 min
- Advanced Networking: 11 min
- Shared and Persistent Data: 8 min
- Modifying Containers and Images: 8 min
- Creating Images from Scratch: 12 min
- Containers Working Together: 10 min
- GUI Tools for Docker: 7 min

Chef Fundamentals  
- Intro: 2 min
- The Chef Methodology: 15 min
- Tools of the Trade: 13 min
- Installing Chef Server (or not!): 17 min
- Chef Server Version 12 - update: 16 min
- Set Up The Administrator Workstation: 28 min
- Version Control for the Chef Repo: 22 min
- Define Our Scenario & Bootstrap a Node!: 15 min
- Creating Our First Cookbook: 27 min
- Recipes and Roles: 24 min
- Dependencies & Conditionals with OHAI Searching: 22 min
- File Templates & Attributes: 19 min
- Creating New Server & Farm Failure Recovery: 22 min
- Chef Environments: 19 min
- Managing Virtual Machines with Vagrant: 28 min
- Community Tools: 17 min
- Common Alternative Chef Setups: 13 min
- Virtual Lab Solution: 27 min