



3PILLAR

GLOBAL

Python in Web Development

Say Hello, and
introduce yourself!



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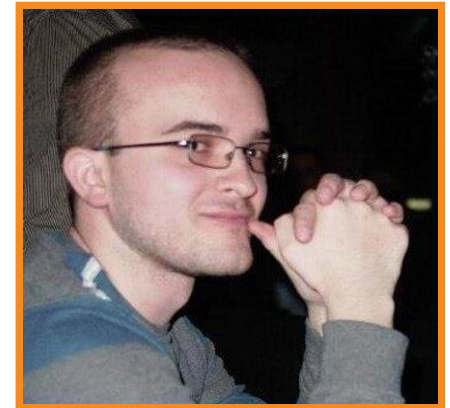
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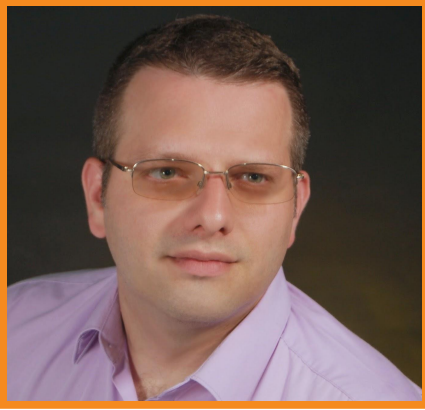
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AGENDA

Part 1: Python

- Introduction
- Interpreter basics, Essential modules
- Object Oriented Programming
- Iterators, Generators and Input/Output
- Debugging and Error Handling

AGENDA

Product Mindset

Part 2: Django

- How to Django
- MTV: Model Template Views
- Intro to HTML and CSS
- Security 101
- Polls App
- Weather App
- Career Path

Lab Session Structure

- Quick recap of previous session 3-5 m
- Presentation of new concepts 20m
- Hands-on Workshop (first-half) 30m
- Short Break 10-15m
- Hands-on Workshop (second-half) 30m
- Pop-Quiz 10m

LAB 1

Vagrant, Linux, Git

Prerequisites

- Google Chrome
- GitHub account and Git 101
- Vagrant <https://www.vagrantup.com>
- SSH client (ex. Putty <http://bit.ly/2kFVngX>)

Vagrant Crash Course

- The Why
 - Basically you need Linux
 - Easy and portable across envs (local, qa, prod)
 - Same as on target platform
 - No more: works on my machine!
 - Port forwarding
 - Folder syncing
 - Simple and versatile provisioning

Vagrant Crash Course

- The How
 - Download:
<https://www.vagrantup.com/downloads.html>
 - Install
 - Download github repo: <http://bit.ly/2nHuc71>
 - Unzip and **vagrant up**
 - Config SSH Client <http://bit.ly/1fDafpW>
 - **vagrant ssh**
 - **vagrant suspend**
 - **vagrant halt**

Linux Survival Guide

- History
- Philosophy
- The Terminal is your friend!
 - Environment variables
 - sudo
 - Essential commands
 - Filesystem: permissions, layout(home, dev, etc, var, proc), tarballs, find, grep, vi, nano
 - Processes: top, kill, ps, pgrep, piping
 - Networking: host, traceroute, netstat
 - User / Group management: add, delete
 - Ask for help: man, info

Git Crash Course

- The Why
 - A little bit of history...
 - Branching
 - Collaborative work
 - Code history
 - Distributed

Git Crash Course

- The How
 - git init **or**
 - git clone
 - git status
 - .gitignore
 - .gitconfig
 - git add
 - git commit
 - git push
 - git pull

Contributors Exercise

Learn how to make changes and push them upstream

Resources

- <https://github.com/3PillarGlobal/aclabs2017>
- How Linux Works: <http://amzn.to/2nuwRQQ>
- Git Book: <http://bit.ly/1MRoX7u>
- Github tutorial <https://try.github.io/levels/1/challenges/1>

Quiz time :)

<https://goo.gl/forms/iArW4raxTjl7aLwn2>

Homework

- Do the Github tutorial
<https://try.github.io/levels/1/challenges/1>

Thank you!