3PILLAR
GLOBAL

Python in Web Development

Say Hello, and introduce yourself!

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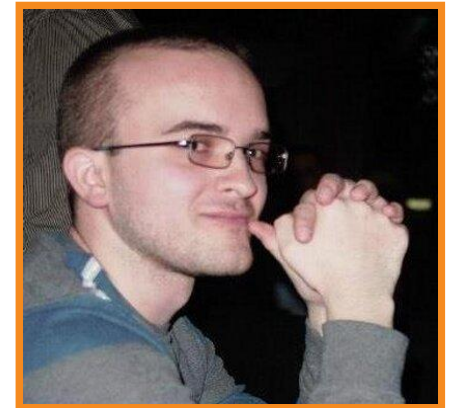Full Stack Developer @3Pillar
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AGENDA

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!