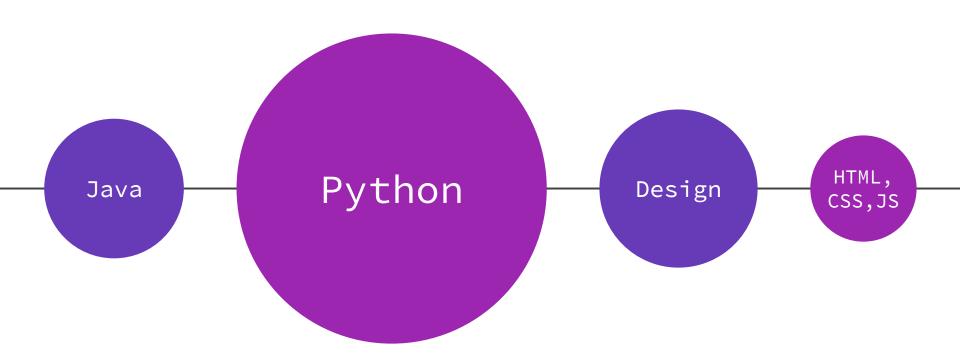# DEUS JERALDY

Bsc.TE4

About me

I'm passionate about building great products that make people's lives easier.

I have over 3 years of experience strategizing innovative digital experiences.
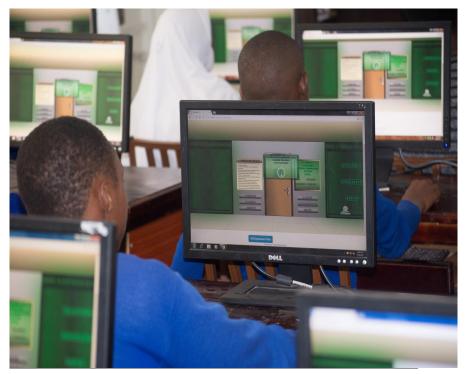
Hobbies

- Programming

- Electronics

- Swimming

Skills & expertise

Java

Python

Design

HTML, CSS,JS

Portfolio samples

Ionic 2 Emulator

– – –

Chemistry Virtual Lab

Technical Assistant – Computation and Modeling Research Group(CMRG)

Car Tracking System

NEWS application

MATUKIO DAILY

pata habari kiganjani mwako

LOGIN

Operating System Award recipient

Dr.Msele campaign ~ 2015

Cive Innovation Award recipient

~2017

Contact

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Prepare your working Environment

LINUX

```
$ cd your/working/dir

$ mkdir Flask

$ cd Flask

Flask$ mkdir templates

Flask$ mkdir static

Flask$ touch app.py
```

WINDOWS

```
> cd your/working/dir

> mkdir Flask

> cd Flask

Flask> mkdir templates

Flask> mkdir static

Flask> type NUL>app.py
```

HELLO FLASK

```python
from flask import Flask

app = Flask(__name__)

@app.route('/')
def index():
    return '<h2>hello flask</h2>

if __name__ == '__main__':
    app.run(debug=True)
```

ROUTER

```python
from flask import Flask

app = Flask(__name__)

@app.route('/')
def index():
    return '<h2>hello flask</h2>'

@app.route('/profile')
def profile():
    return '<h1>Profile Page</h1>'

if __name__ == '__main__':
    app.run(debug=True)
```

Folder structure

>Flask

----templates

----static

app.py

static

Contains css & javascript files

templates

Contains html files

Create CSS and JS file

LINUX

```
Flask$ cd static

Flask$ touch style.css

Flask$ touch index.js
```

WINDOWS

```
Flask> cd static

Flask> type NUL>style.css

Flask> type NUL>index.js
```

INSIDE CSS AND JS FILES

```
index.js        ✕
1
2    function testJs(){
3        alert('JS WORKS')
4    }
5
6
7
8
9
```

```
style.css        ✕
1
2
3    body{
4        background-color: ▮red;
5    }
6
7
8
9
10
```

INSIDE index.html
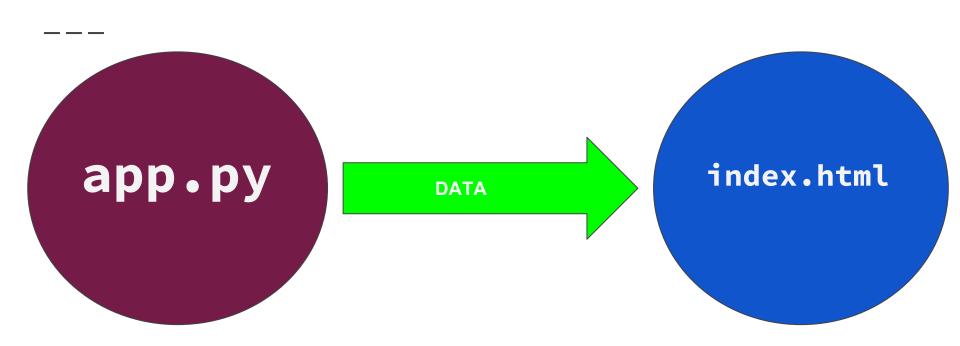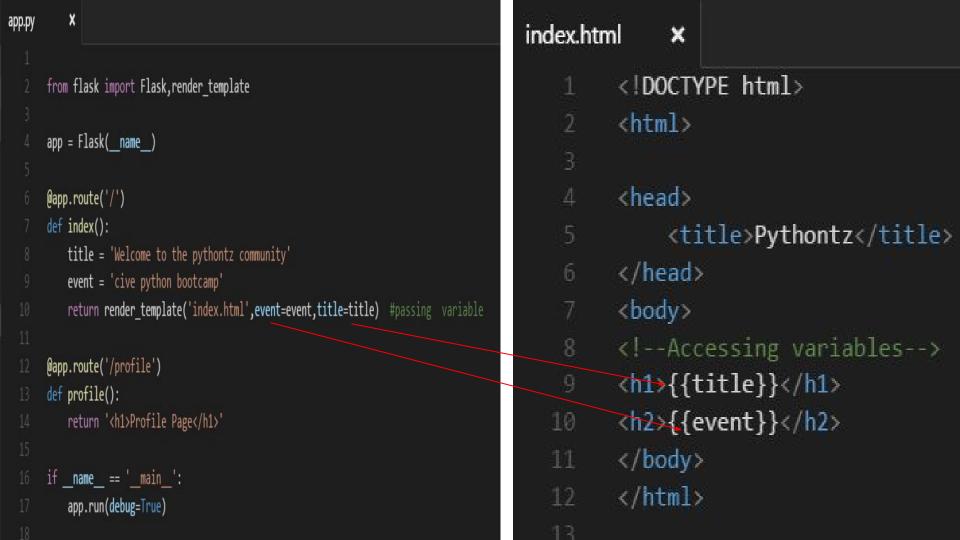
```html
1   <!DOCTYPE html>
2   <html>
3
4   <head>
5       <title>Pythontz</title>
6       <!-- import syle.css-->
7       <link rel="stylesheet" href="./static/style.css" type='text/css'>
8   </head>
9   <!--Apply css to the body-->
10
11  <body class="body-color">
12      <!--call javascript function-->
13      <button type="button" onclick="testJs()">TestJs</button>
14  </body>
15  <!--import index.js-->
16  <script type="text/javascript" src="./static/index.js"></script>
17
18  </html>
19
```

INSIDE app.py

```python
from flask import Flask,render_template # render_template to call html templates

app = Flask(__name__)

@app.route('/')
def index():
    return render_template('index.html') # using render_template to call html templates

@app.route('/profile')
def profile():
    return '<h1>Profile Page</h1>'

if __name__ == '__main__':
    app.run(debug=True)
```

Data binding

- - -

app.py → DATA → **index.html**

app.py ✕

```python
from flask import Flask,render_template


app = Flask(__name__)


@app.route('/')
def index():
    title = 'Welcome to the pythontz community'
    event = 'cive python bootcamp'
    return render_template('index.html',event=event,title=title)  #passing  variable


@app.route('/profile')
def profile():
    return '<h1>Profile Page</h1>'


if __name__ == '__main__':
    app.run(debug=True)
```

index.html ✕

```html
<!DOCTYPE html>
<html>

<head>
    <title>Pythontz</title>
</head>
<body>
<!--Accessing variables-->
<h1>{{title}}</h1>
<h2>{{event}}</h2>
</body>
</html>
```

More..

```python
from flask import Flask,render_template

app = Flask(__name__)


@app.route('/')
def index():
    drinks = [{'name':'Energy'},{'name':'Cola'},{'name':'Mango'}] #json
    return render_template('index.html',drinks=drinks)  #passing  variable


if __name__ == '__main__':
    app.run(debug=True)
```

```html
<!DOCTYPE html>
<html>

<head>
    <title>Pythontz</title>
</head>
<body>
<!--Accessing variables-->
<ol>
    {% for drink in drinks%}
    <li>{{drink.name}}</li>
    {%endfor%}
</ol>
</body>
</html>
```

GET & POST REQUESTS

POST

Submits data to be processed to a specified server

GET

Requests data from a specified server

MY PHOTO GALLERY PROJECT