

# Jody Beggs

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## Summary

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What excites me is science and the modern technology we find ourselves around. Apart from programming, hardware has a special place in my heart.

ESP32's are my latest pet project.

<https://www.espressif.com/en/products/socs/esp32>

Raspberry pi and arduino have opened remote control and motion control to the middle class and opened so many interesting opportunities.

I enjoy learning about new technologies and being challenged to think outside of the box.

With AI it's now possible to start expanding on IoT

# Skills

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# Work Experience

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## QA tester

Kastelo | October 2024 - Present

Use Appium and WebdriverIO to automate User interactions on mobile devices, to test user flows.

Android Studio and X-code for respective devices...

Playwright for web based scripting...

All done on a Mac obviously but I'd prefer going back to linux...

typical flow

login, complete a sign(multiple uploads and use of camera)

Add testing data e.g. Cards to process payments an then processing payments

My Current code-base :

1. Runs one test for both Android and iOS
2. Both scripts can run at same time.
3. Helps with repetitive front-end testing tasks
4. Changing configuration on the device if needed
5. Auto detects devices
6. Edit configurations as little as possible.
7. Can create flows and get page source from devices.

Creating tests scripts for web is easier as you already have access to selectors. And most tools are built for web.

AI is needed to develop and decipher the selectors and flows of the code.

Something that would take months or years to try and code manually can be done in weeks.

# **Python Programmer**

Cullinan Holdings Limited | November 2020 - April 2023

## **Django Python Developer**

1. Monitored and maintained operational readiness of middleware applications.
2. Worked independently to design, develop, and test code.
3. Designed web-based assets for deployment on cloud computing platforms.
4. Stayed current on developments in related Python frameworks.
5. Translated business requirements into logical and physical file structure designs.
6. Developed Django Python for a small development team, focused on the tourist industry.

**Streamlined error reporting using Loggly (Solar Winds) to alert when Django throws an error.**

Error Logging: Loggly-python-handler==1.0.1

And integrated the OTP process into the login process using a custom backend.

## **Database**

Postgres (psycopg2)

## **Using Django Tenants to develop software**

Django-tenants

This made the development a "Software as a Service" product.

This application enables Django-powered websites to have multiple tenants via PostgreSQL schemas. A vital feature for every Software-as-a-Service website.

## **Developed software for the following tenants:**

- <https://followme2africa.udms.cullinan.systems>
- <https://thompsonsafrica.udms.cullinan.systems>
- <https://africandiamondtours.udms.cullinan.systems>
- <https://cullinanguidedjourneys.udms.cullinan.systems>
- <https://grosvenortours.udms.cullinan.systems>
- <https://planetafricatours.udms.cullinan.systems>
- <https://springbokatlas.udms.cullinan.systems>
- <https://thompsonsgateway.udms.cullinan.systems>
- <https://cullinanjapan.udms.cullinan.systems>
- <https://thompsonsholidays.udms.cullinan.systems>
- <https://cullinannamibia.udms.cullinan.systems>

- <https://thompsonschina.udms.cullinan.systems>
- <https://africandiamondtours.udms.cullinan.systems>
- <https://cotweb.udms.cullinan.systems>

## Python 3.6

### Django Stack

Django==2.2.1

Django-autocomplete-light==3.5.1

django-ckeditor==6.0.0

django-cors-headers==3.7.0

Django-crispy-forms==1.7.2

djangorestframework==3.10.3

Used Javascript all the time mainly (JQuery): validation for a variety of fields and situations.

## PHP Engineer

iono.fm | January 2014 - March 2014

- PHP (Laravel)
- Introduction Docker and Kubernetes. Could build basic images and run images. I see the potential but lack the ambition to dive deeper.
- Contracted out to VumaTel for development on their backend. At VumaTel we developed using Django and Ansible to automate deployment.

My role was to develop on a Mac using VM WARE 6 to run Ubuntu 12.04.

We used Source Tree to manage a GitHub repository.

Iterm and byubo to manage and install the server software and deploy code using bash scripting.

Program in PHP using Sublime Text and CodeIgnitor to maintain and develop new modules for the web application.

Track bugs and issues on Bug Herder.

Keep on track with Trello to make sure I hit deadlines control workload.

Test using all browser and mobile devices.

## UI Designer

Bytes Managed Solutions | June 2014 - November 2014

- Upgrading Pick 'n Pay's smart shopper kiosk.
- Tasked with using Internet Explorer and XML to manage a smart shopper Kiosk's products. This instance was smartphones.
- Used a touch screen with gestures to browse and select any given product.
- Device ran Windows XP.

## Python Engineer

KrazyBoys | November 2014 - March 2015

Sole purpose was to help on the development of <https://thisisme.com/>.

Written in Python using the Django framework.

**Tools used in the development:**

- Sublime Text2
- Ubuntu Desktop / Server
- Git
- Integrating 3rd party API for user validation.
- Form creation with JavaScript validation

## Partner IT Specialist / Systems Engineer

MiServe | May 2015 - May 2016

- This startup was looking at addressing the internet access or lack thereof, in Observatory, Cape Town.
- We bought wireless internet and were trying to set up small network nodes to sell the internet to business owners and homeowners. I started setting up the servers and configuring the individual nodes to share the data.
- To keep it simple we used Squid as a proxy server. But 2g / 3g and larger players in the industry made it hard to get into the market...

## Manager

Bike Bar 58 Lower main Rd | April 2015 - December 2017

So I walked into this bar and four years later I left. What started out as a Sunday shift ended in me being manager.

## **Python Engineer/ CEO/ Owner**

Python Programming Solutions | May 2008 - Present

**Trying to get this project off the ground.**

**Framework for hosting and developing fast modern web applications.**

Using Django CRM as a backbone, started integrating Content management (text, images, video) into the system

**Manages and controls login, products, ecommerce etc**

<https://3pillars.pythonanywhere.com/>

Another frontend with a management dashboard, individual businesses can login and update content, products etc.

**User admin user can login and see all**

<https://3pillars-frontend.vercel.app/>

Admin can moderate if needed or delete inappropriate content

**And example of the end product, you can register and process cart.**

<https://java-mellow-project.vercel.app/>

Business owner has CRUD for products and can export list to yoco

## **Junior Consultant**

Tangent Solutions | March 2018 - February 2019

- PHP (Laravel)
- Introduction Docker and Kubernetes. Could build basic images and run images. I see the potential but lack the ambition to dive deeper.
- Contracted out to VumaTel for development on their backend. At VumaTel we developed using Django and Ansible to automate deployment.

# Python Backend Developer

4-Sure | April 2019 - March 2020

## Pycharm

First time I was forced to intimately grasp Pycharm and loved it. From setting up the virtual environment to running tests against the code-base and database. Still used the command line for Git but ended up creating tests to run against any client instance.

## Fault Finding and bug fixing

Logging the functionality of a Class, Function or endpoint has become my top priority for one reason: the logged information can be used to create tests for that particular code. That means not only is it easier to create the test i.e. not faked and valid from the frontend, but once the test is using the logged data, you essentially start testing the developers use the correct data and receive valid errors or returned data. This also means when the code is worked on in the master, the tests created from logging can double-check that the functionality is still working.

Finally automation. We can use the tests to automate testing before the code is released live. This starts to ensure that, as a bug stomper, I don't chase bugs introduced by front-end software testers entering in random information and correct data structure is enforced.

## PyTest

I found out the hard way that testing helps. Before adjusting a single letter of code, write a basic test to hit the endpoint/function and check the returned data. If needed inject test data. Can be tricky if you need to save or test against a database. Use Pycharm to manage the different tests.

Can integrate TOX if the environment allows.

## BUGS

Every minor bug came through me. Replicating the error was task one. Which was a test and then fixing it easier. Trawling error logs to find clues and context was key.

First the client, the environment, Development, Staging or LIVE, and a claim number. All major traffic was focused on two main endpoints or Classes. Create and Update. Create being the easier, I created that one from code setup for me. Client aware i.e. used specific code for individual clients stored on the code.

Clients included Multichoice, Builders, and the insurance industry.

Managed through Jira (Atlassian) and linked to GitHub.

## Django rest API

I was tasked with the creation of endpoints and functionality. Usually, I am given a JSON data packet then depending on what's needed either save/update the database, request external API, or code alternative functionality.

## Django Authentication

Integrated OTP Authentication into the custom backend.

## GIT

Branching of development and committing to the development branch for each customer. Never touching master. There were up to 8 clients linked through Atlassian.

## Team

I've always worked in conjunction with other developers, allowing me to focus on the backend. I understand frontend, I need to, but my talent lies in the backend.

The only time you see my work is in the Documentation. The rest is endpoints and backend functionality hidden from view. Or when something not working.

# Projects

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## 3 Pillars

**Created:** January 25, 2026

<https://3pillars.pythonanywhere.com/>

This is a backend that manages login, content, products, ecommerce etc

Uses django-crm and firebase to manage flows and contact relevant users.

Still working on the actual app

## 3 pillars frontend

**Created:** January 25, 2026

<https://3pillars-frontend.vercel.app/>

Create and mange businesses registered with the site

Business owners portal to statistics and advanced feature, changing API key for yoco or courier guy

## Java Mellow

**Created:** January 25, 2026

<https://java-mellow-project.vercel.app/>

An example of an integrated site

Login, crud for products and business owner or cart for registered users.

Cart working with yoco

## Kastelo iOS and Android App testing

**Created:** January 26, 2026

<https://www.kastelo.co.za/>

Didn't test the website, only the Django backend and the App frontend on Staging (QA)

<https://apps.apple.com/za/app/kastelo/id6447241940>

<https://apps.apple.com/za/app/kastelo/id6447241940>

# **Education**

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## **Alexandra High School**

**High School | 1994 - 1997**