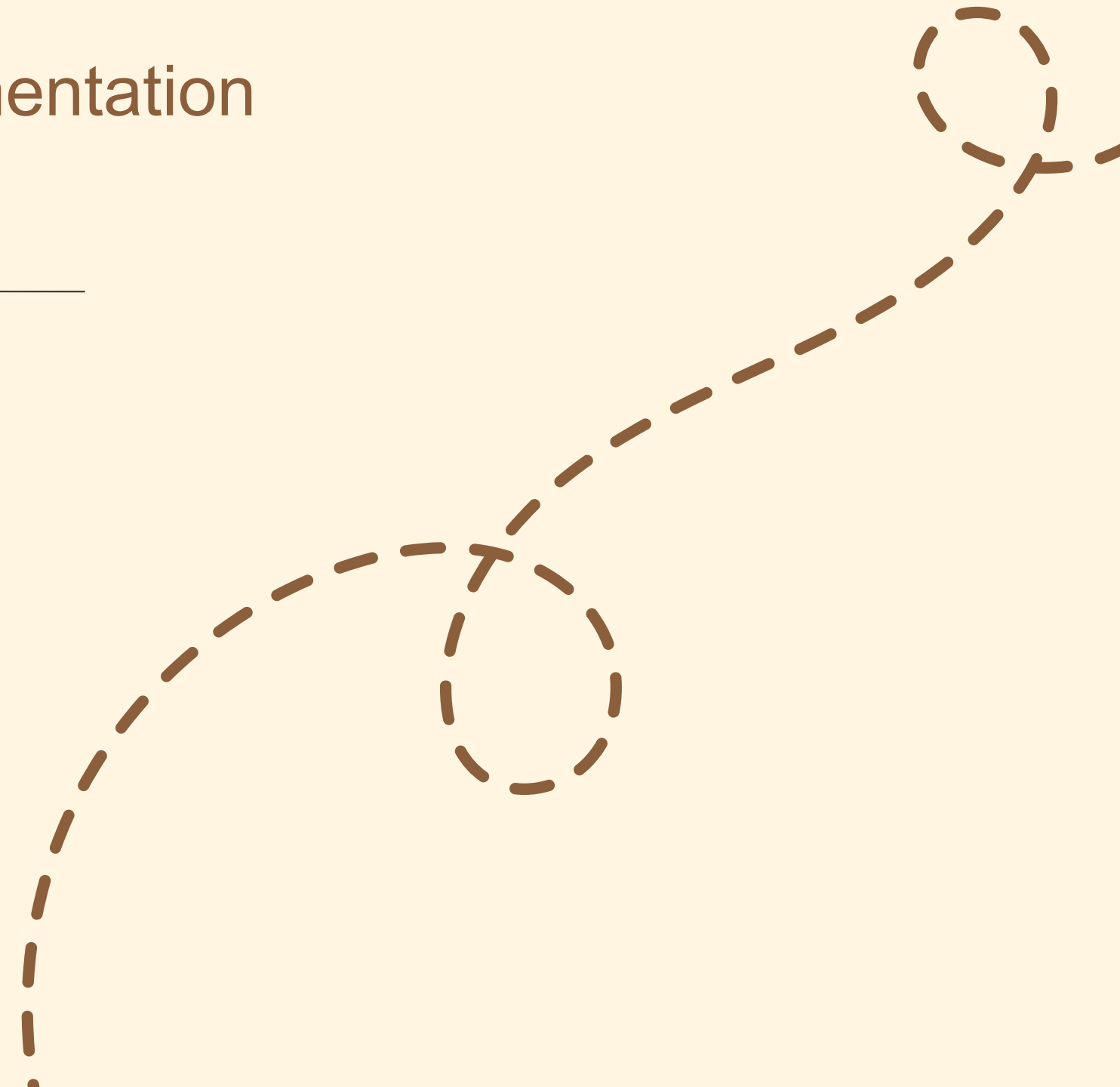


Knit To Knit: An AWS Implementation

by Marco Cassar

April, 2025



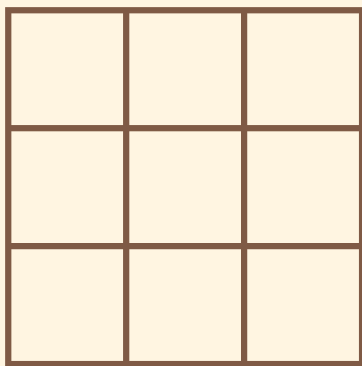
Lets Recap

But Marco Why Knitting?



November, 2024

Key Knitting Challenges?

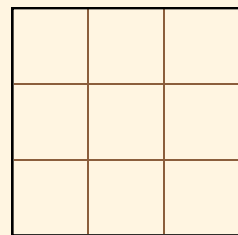


Solutions Stack

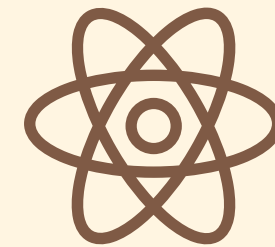
Knit To Knit



Django



React



Website



Demo Example

Knit To Knit

Knit-to-Knit

KNITTING NAVBAR

Dashboard

Patterns

Pattern Create

Designs

Design Create

Pattern Name:Fall Raglan Sweater

Pattern Content:Fall Colored Sweater with ribbing and a light taper

Sweater Type:Separated Sweater

Swatch Info

Width:4

Height:4

Stitches:20

Rows:28

Needle Size:3.5

Torso Dimensions

Width:17

Height:24

Ribbing:☒

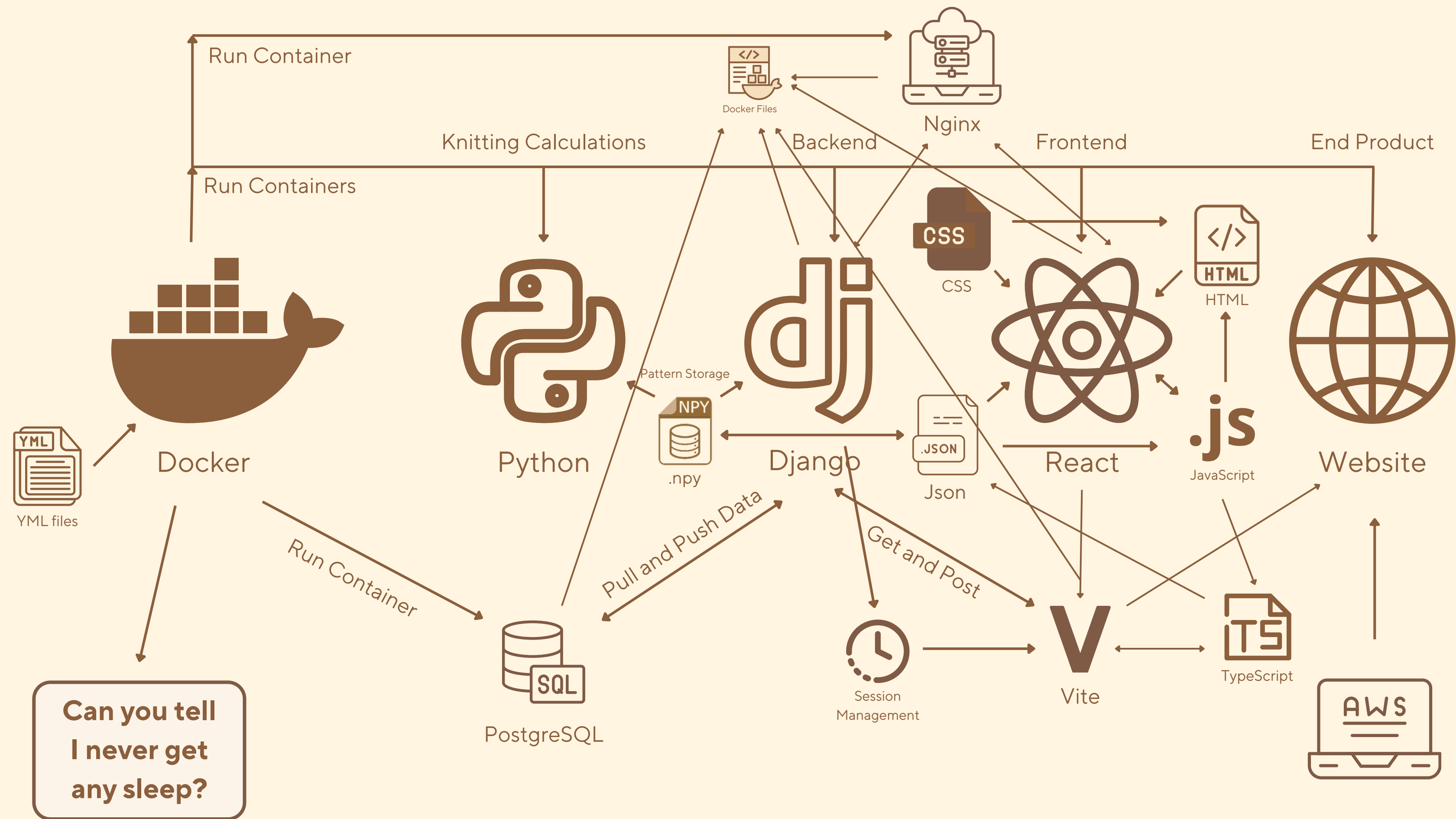
Taper:☒

Neck:☒

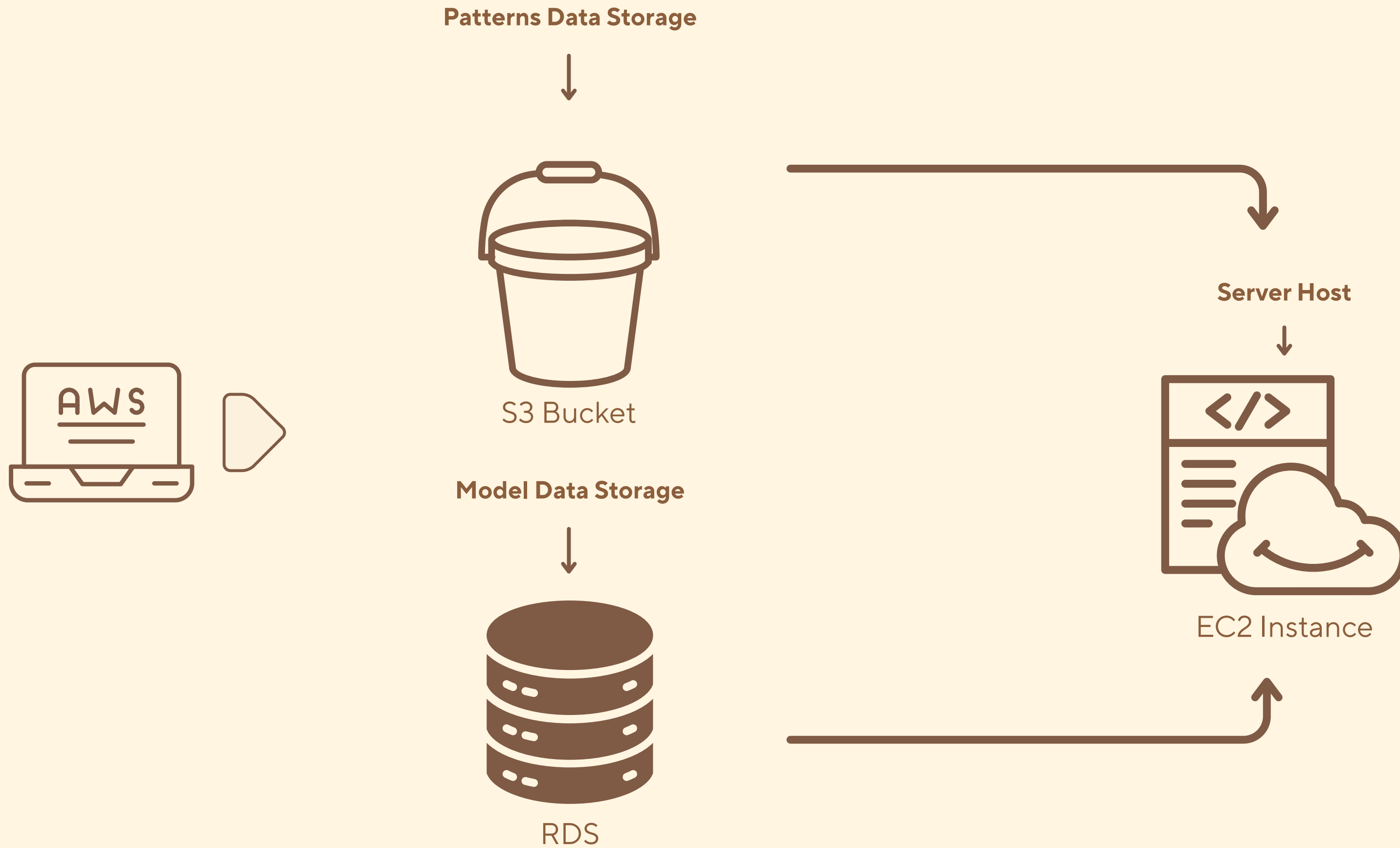
Full Tech Stack

Tech Stack

Knit To Knit







S3 Bucket



S3 Bucket



Objects (9)

Copy S3 URI

Copy URL

Download

Open

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. [Learn more](#)

Find objects by prefix

Show versions

<input type="checkbox"/>	Name	Type	Last modified
<input type="checkbox"/>	pattern_1/	Folder	-
<input type="checkbox"/>	pattern_2/	Folder	-
<input type="checkbox"/>	pattern_3/	Folder	-
<input type="checkbox"/>	pattern_4/	Folder	-



Objects (1)

Copy S3 URI

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. [Learn more](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	pattern_pieces.npz	npz

pattern_pieces.npz

Info

Copy S3 URI

Download

Open

Object actions

Properties

Permissions

Versions

Versions (4)

Download

Open

Delete

Actions

< 1 >

<input type="checkbox"/>	Version ID	Type	Last modified	Size	Storage class
<input type="checkbox"/>	7mRlvtDLn5GiOCFPf_BrQ_h... (Current version)	npz	March 4, 2025, 10:08:50 (UTC-06:00)	144.5 KB	Standard
<input type="checkbox"/>	R3lcdYF4uO.2IFcXDBAWV7...	npz	March 3, 2025, 12:52:24 (UTC-06:00)	144.5 KB	Standard
<input type="checkbox"/>	lZom.Q1JSqEA.F69_UYraYc...	npz	March 3, 2025, 12:43:47 (UTC-06:00)	144.5 KB	Standard
<input type="checkbox"/>	vV3SZzQLe6RI8nzreJYjniiz...	npz	March 3, 2025, 12:29:20 (UTC-06:00)	144.2 KB	Standard





Patterns



Profile Photos



Marketplace Listing Info



EC2 Instance



EC2 Instance

SSH Connect

```
(.venv) marcocassar@Marcos-MacBook-Pro knit_to_knit % make connect-aws
```

Looking at the files

```
,      #_
~\_    ####_      Amazon Linux 2023
~~  \_#####\
~~      \###|
~~      \#/  ___  https://aws.amazon.com/linux/amazon-linux-2023
~~      V~'  '->
      ~~~      /
      ~~._.    _/
      _/  _/
      _/m/'

Last login: Fri Mar 28 18:01:40 2025 from 62.106.78.210
[ec2-user@ip-172-31-11-23 ~]$ ls
Makefile  backend  docker-compose.yml  logs  media_backup  nginx
[ec2-user@ip-172-31-11-23 ~]$
```

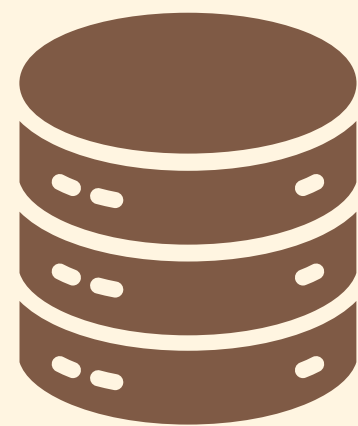
Backend Stack

```
[ec2-user@ip-172-31-11-23 backend]$ ls
Dockerfile  app.log  app.log.1  app.log.2  app.log.3  authentication  backup.json  core  entrypoint.sh  error.log  manage.py  patterns  requirements  static  staticfiles
```




RDS

What data does it hold?



RDS



AUTHENTICATION AND AUTHORIZATION		
Groups	+ Add	✎ Change
Users	+ Add	✎ Change
PATTERNS		
Patterns	+ Add	✎ Change
Separated sweaters	+ Add	✎ Change
Sleeve_ projections	+ Add	✎ Change
Swatchs	+ Add	✎ Change
Torso_ projections	+ Add	✎ Change



PostgreSQL

Knit To Knit Demo

KnitToKnit.com

Credentials

Username *belmont*

Password *SparkTest!*

Q&A

Feel free to ask any questions you may have.
I'll do my best to answer them!

Thank You

Knit To Knit