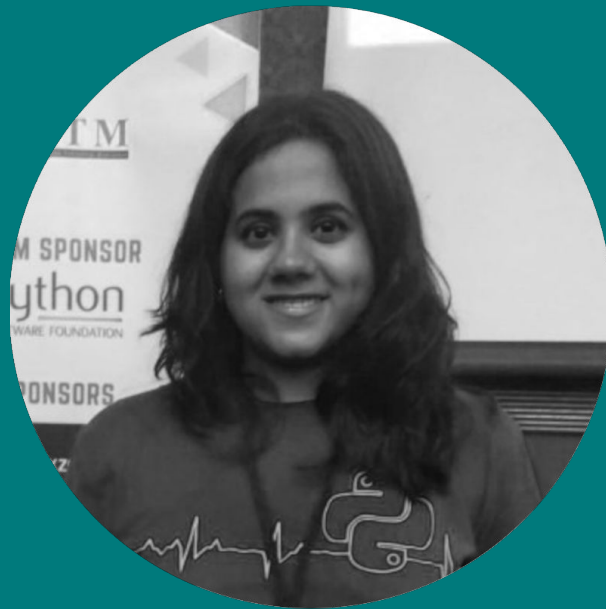


May the Pipeline be with you  
coding for the movie industry

# Hi! I'm Archana

and I'm Fellow at Women Who  
Code



# OUR MISSION

Inspiring women to  
excel in technology  
careers.

WOMEN WHO  
**CODE**



# OUR VISION

A world where diverse women are better represented as engineers and leaders in technology.

WOMEN WHO  
**CODE**



# OUR TARGET

Engineers with two or more years of experience looking for support and resources to strengthen their influence and levelup in their careers.

WOMEN WHO  
**CODE**



# CODE OF CONDUCT

**WWCode is an inclusive community**, dedicated to providing an empowering experience for everyone who participates in or supports our community, regardless of gender, gender identity and expression, sexual orientation, ability, physical appearance, body size, race, ethnicity, age, religion, socioeconomic status, caste, creed, political affiliation, or preferred programming language(s).

Our events are intended to inspire women to excel in technology careers, and anyone who is there for this purpose is welcome. We do not tolerate harassment of members in any form. Our **Code of Conduct** applies to all WWCode events and online communities.

Read the full version and access our incident report form at [womenwhocode.com/codeofconduct](https://womenwhocode.com/codeofconduct)



# 250,000

## Members

70 networks in 20 countries

Members in 122+ countries

14K+ events

\$1025 daily Conference tickets

\$2M Scholarships

Access to [jobs](#) + [resources](#)

Infinite connections

WOMEN WHO  
**CODE**





# OUR MOVEMENT

As the world changes, we can be a connecting force that creates a sense of belonging while the world is being asked to isolate.

WOMEN WHO  
**CODE**





# Hi! I'm Jessica

and I'm a  
Pipeline Technical Director

[linkedin.com/in/jessicakoubi](https://www.linkedin.com/in/jessicakoubi)



# Hi! I'm Bushra

and I'm also a  
Pipeline Technical Director

[linkedin.com/in/bushraalmazloun](https://www.linkedin.com/in/bushraalmazloun)



# Some bytes about me

- Come from an art background and self-taught developer.
- Started working as a Pipeline TD in 2010.
- Worked on 40+ movies and TV shows.



# What does a Pipeline TD do?

- Ensure the smooth running of tools and workflows.
- Develop new tools.
- Work closely with the R&D department and artists.
- Handle data pipelines.
- Provide technical support and advice for artists.

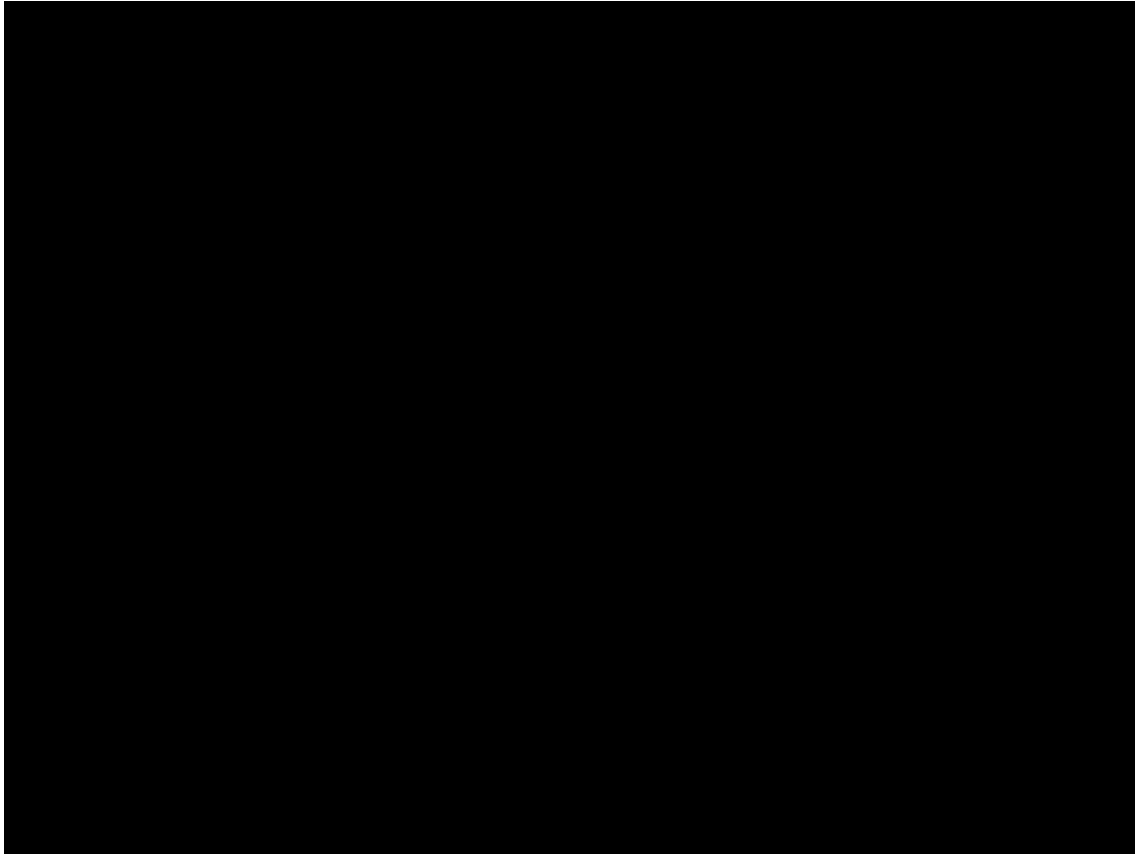
# Who work as a Pipeline TD ?

- 2 types of background:
  - Artists who code.
  - Software engineers who like computer graphics (3D and/or 2D).
- People who like puzzle solving and being close to the users.
- Teapots enthusiasts.

# Various specialities

- Specialities by departments:
  - Core
  - Assets (modeling, rigging, texturing, ...)
  - Shots (animation, lighting/rendering, compositing, FX, CFX, ...)
- Specialities by interests/skills:
  - Algorithms implementation
  - Tools and data pipelines
  - Support
- Specialities are often mixed and depends on the studio size.

# Case Study : Avengers Infinity War





# Case Study : Avengers Infinity War

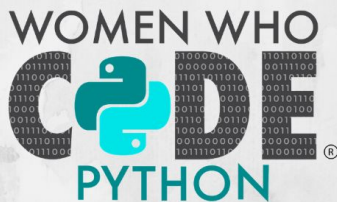
- Masquerade: Machine learning-based facial capture system.
- SMEAT: Muscle and skin simulation software.
- AnimViz: GPU-based shot pre-visualization system.

# Final Words

- Checkout SIGGRAPH at [siggraph.org](http://siggraph.org)
- Open source initiatives (OpenEXR, Qt.py, OpenSubdiv, ...)
- Where to find a pipeline TD position:
  - LinkedIn
  - VFX/Animation studios websites
  - SIGGRAPH

**AMA**

# Stay Connected



JOIN US ON SOCIAL MEDIA!



@WWCODEPYTHON

WOMENWHOCODE.COM/PYTHON

- Let us know which talk on VFX/Animation you want next!
- Find more resources related to this talk on [github.com/WomenWhoCode/WWCodePython](https://github.com/WomenWhoCode/WWCodePython)
- For additional questions, email me at [jessica.koubi@gmail.com](mailto:jessica.koubi@gmail.com)