

## Hardware Architecture

- Raspberry Pi 4 Model B
  - 8GB RAM
- Raspberry Pi Camera
- Pi Foundation Display Touchscreen
- SmartPi Touch 2

**Raspberry Pi 4:** Single board computer that will contain the entire program



**PyQt5/Qt Designer** - Python library and tool used to develop the main GUI



## Software Architecture

- Raspberry Pi OS
- Python 3
- Bash
- PyQt5/Qt Designer
- Figma
- Azure Custom Vision
- Docker

**Raspberry Pi Camera:** Used to capture pictures for object detection on Raspberry Pi



**Azure Custom Vision** - Takes pictures from camera to train object recognition AI model



# Raspberry Pi Computer Vision Programming

**Yi-Tong Ma**



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