# - H20 CONSERVATION

TIM + DAVID + PETER

### THE TEAM



Tim Pao Finance | MIS Incoming Summer Analyst @ Goldman Sachs



David Koo

MIS | Business Analytics

Incoming Solutions

Engineer @ Deloitte



Peter Kim
Electric & Computer
Engineering



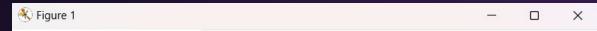
#### **OUR SOLUTION**

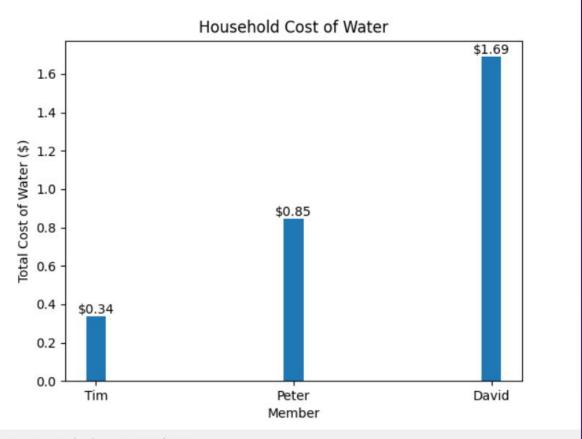
- End user consciousness
- Peer-to-peer comparison
- Simple graphical interface
- Fun for all ages!

```
result = f"Water Usage:\n"
    for k, v in water usage.items():
        result += f"{k.capitalize()}: {v} gallons\n"
    result += "\nWater Saving Tips:\n"
    for tip in tips:
        result += f"{tip}"
    dict sum = sum(water usage.values())
    cumlulative cost = dict sum * .009
    household cost = cumlulative cost * 3.13
    messagebox.showinfo("Water Usage Results", result)
    return dict sum, household cost
def on profile select(event):
    user = users[profile select.current()]
    name var.set(user.name)
def add profile():
    global profile window
    profile window = tk.Toplevel(app)
    profile window.title("Add Profile")
    global profile name var
    profile name var = tk.StringVar()
    profile name entry = ttk.Entry(profile window, text)
```

### \_ FEATURES

Add/update based Graphical view of Save the water! individual water usage on specific usage criteria Comparison between profiles of choice







## **TOOLS USED**

#### Profiles

- Python
- TKinter
- Matplotlib
- Pygames

#### Skills

- UX design
- Object-oriented programming
- GUI
- Game design



# -DEMO!

# **FUTURE USE**

- Deploy to mobile app
- Ability to swap between resources (H2O, CO2, electricity)
- More Interactive Dashboard
- More game integration

