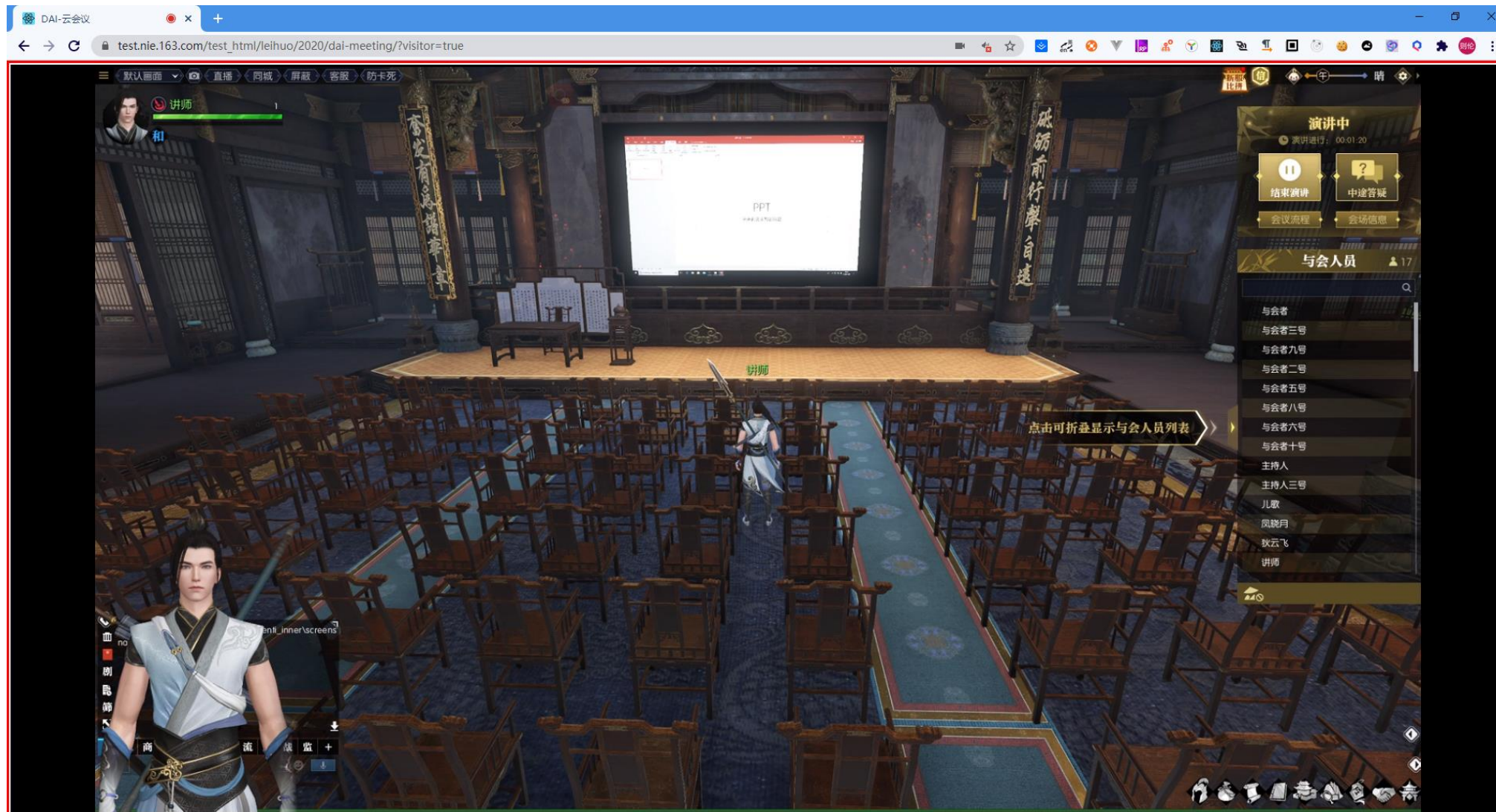


# **An Online Virtual Character Web Meeting With Expression Enhance Power By Machine Learning**

ZeLun Chen

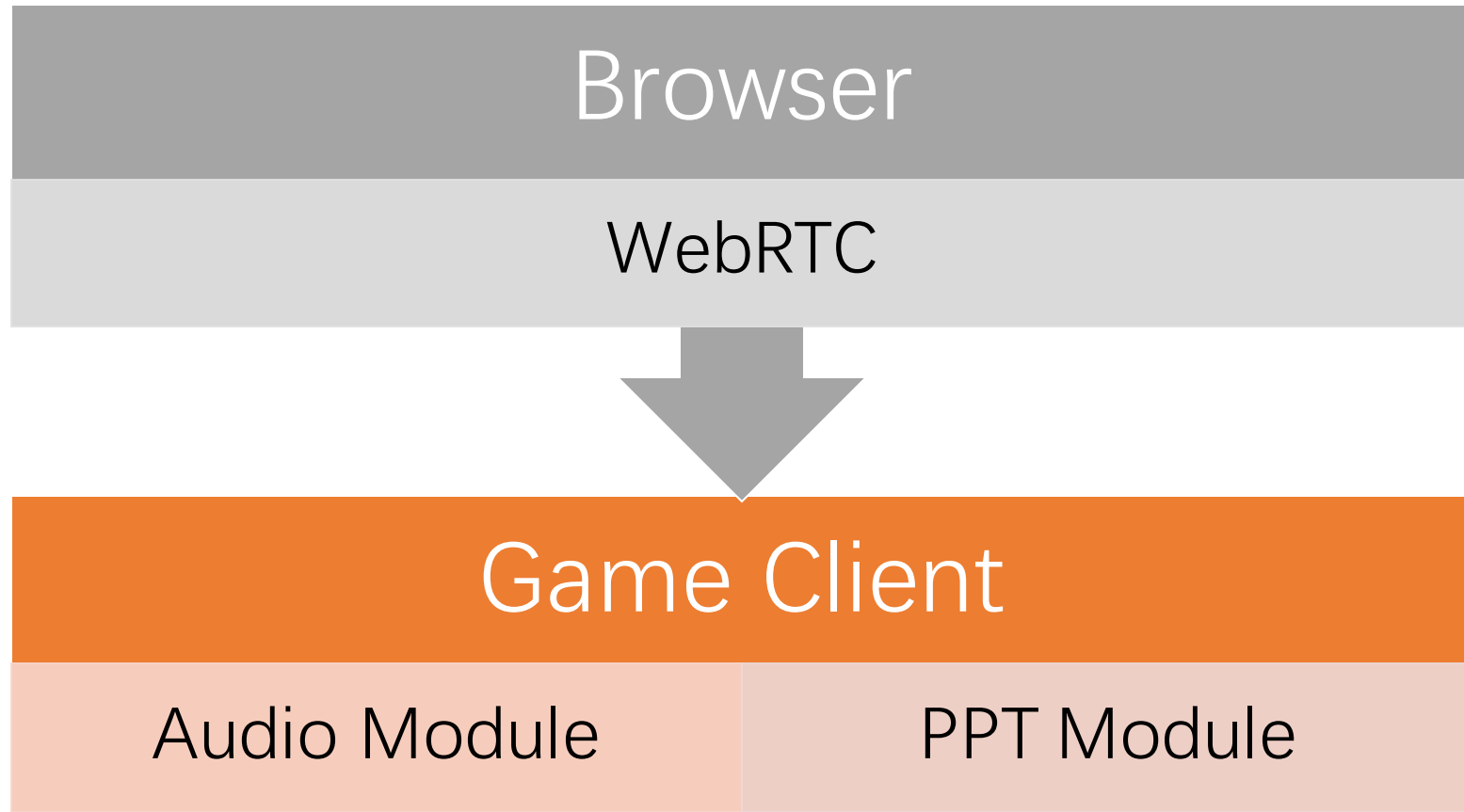
Front-End And Client Development Engineer, Netease

# Background

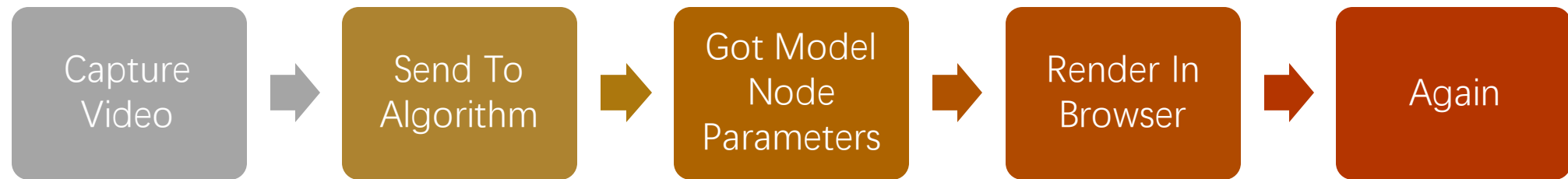


# Framework

**Expression Enhance Power!**






# Process



Algorithm and Modeling are supported by Fuxi AI Lab  
<https://fuxi.163.com/en/>

# How

- OpencvJs And Machine Learning Inference Engine Js Lib   
Rewrite Our Source Code With Javascript (v\_v)
- Back End Api Interface   
Network Request Time Latency
- WebAssembly With Some LLVM Bitcode Libraries 

# Step



# Problem

- Need To Know A Lot Of Knowledge With CMake, CLang And Cross Compile And Library's Source Code(I Need Npm!)
- Only Support PThread, Not Support OpenMp(Etc...)
- Bad Performance On Matrix Calculation
- Lack of Support On Encrypt Solution(VM Protect)

Our Ideas:

1. Use Quickly Javascript Library Like tensorflow.js, Webassembly Use EM\_JS To Call Javascript Function
2. Use SIMD Experimental Features

Any Other Ideas?  
Thank You