

YUNKUN (RICKY) LU

Carnegie Mellon University Junior, Computer Science/Computational Finance

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<https://github.com/PaperbagLife>

<https://paperbaglife.github.io>

Citizenship: New Zealand

PROJECTS

Couple Trouble

Computer Vision 2D Game

Feb 2020–Present

- Computer Vision detects distinct colors for 2 player game
- Best Valentines Hack award in Tartan Hacks

CVShooter

Computer Vision Top-Down Shooter Game

Apr 2019

- 112 Term Project (96.6%)
- Computer Vision controlled top-down shooter game on Pygame
- Color detection and object tracking

Evaluating the Validity of Automatic Speech Recognition Technologies for Online Medical Counseling

Independent research

May 2020 - present

- Transcribe medical videos using Automatic Speech Recognition(ASR) APIs from Google, IBM, Microsoft
- Evaluate the APIs using word error rate and Levenshtein distance
- Identify and evaluate factors that affect ASR performances

Enter the Areana

Project Member

Fall 2018

- 3D VR game in Unity using HTC vive
- Programmed enemy attack logic in C# Collaborated with a team of 9 people

EXPERIENCE

International English Support & Education

Feb 2016 – August 2018

- Taught English to Chinese students through video calls
- Learned about many unique, local Chinese cultures

School representative for Engineering Without Borders

May 2017–May 2018

- Arranged workshops at my school to inspire future engineers
- Further communications ensured an annual talk/workshop

EDUCATION

B.S.in Computer Science, Minor in Comp Finance

2018-May 2022

Pittsburgh, PA

GPA - 3.80/4.00

Selected coursework:

- Theoretical Computer Science
- Intro to Computer Systems
- Data Structures and Algorithms
- Mathematical Modeling

In progress:

- Discrete time Finance
- Artificial intelligence
- Machine Learning

PROGRAMMING LANGUAGES

Python

C

SML



SKILLS

Video Editing

Data visual production

Photoshop

OpenCV (Computer Vision)

Google Cloud API

IBM Wattson API

Microsoft Azure API

Pygame

Sockets

HTML

Unity

LaTeX

INTERESTS

Computer Vision

Autonomous Vehicles

VR

Game Design

Speech recognition

Accessibility support for games

LANGUAGES

Chinese (Mandarin)

English

Japanese

