Yu-Tang, Shen

https://yutan9.github.io/

EDUCATION

Chinese University of Hong Kong *September 2015 - May 2019*
Bachelor of Science in Computer Science

National University of Singapore *January 2017 - June 2017*
Exchange Program

PROJECTS

Circulating tumor cells recognition *August 2019*
While working at Cellmax, I cooperated with Acer on developing a neural network on recognizing circulating tumor cells (CTCs), and my job was to prepare the confirmed CTCs image for training. I first tried the convolution matrix to detect the edges, but the low intensity from the microscope led to unsatisfying results. I then adopted the Watershed segmentation algorithm, and the results were accurate enough for the scientist in the medical lab to identify CTCs and to further label the training data.

Report Generating Application *August 2019*
I developed a report generating application based on Python while working at Cellmax. One of my colleague was responsible for making the medial report, while sometimes human error can sabotage the credibility of the report. I developed an application that can automatically fetch data and fill into corresponding blanks in different templates, which not only eliminated the human error but reduced the time on generating a report from at least 30 minutes to less than a minute.

Motion Retargetting *September 2018 - May 2019*
The project aims at retargetting a motion from a skeleton to another. My teammate and I tried utilizing non-linear optimization function from Matlab to retarget each joint to a corresponding point in 3D space. And we further adopted a GAN network developed by NVIDIA, Style GAN, trying to achieve a more natural result by generating a series of frames that the proportion of the skeleton meets our need.

WORK EXPERIENCE

Cellmax Life, Taipei July 2019 - November 2019
Software Engineer Engineer

Full-time software engineer that was involved in different aspect of IT department, such as database design, neural network development, and automatizing procedures for different departments.

Shopee, Taipei July 2018 - August 2018
Data Analyst Intern

I took charge of tracking performance on push notifications, crawling price data, and cleaning data using Python and Excel.

TECHNICAL STRENGTHS

Analysis	Python, TensorFlow, R
Software engineering	HTML, Vue, jQuery, Github, React
Database	SQL, MySQL

EXTRACURRICULAR

Volunteered at Sri Lanka, teaching primary school students English in 2016.

Volunteered in Guangxi, China teaching middle school students math, Chinese, and English in 2016.

Winner of Taiwanese Student Association Basketball Game in 2015 and 2017 at CUHK.

Winner of Inter College Volleyball Game in 2016 at CUHK.

Second place of Inter College Volleyball Game in 2018 at NUS.

Competed in Cathay Pacific Hackathon in 2017.