ZHUOYUE LYU

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EDUCATION

University of Toronto (St. George)

Sep 2017 - Jun 2021

Second-year Computer Science Specialist - Focus in Al

Toronto, Canada

Major GPA: 3.94 / 4.00

- A+ CSC165 Mathematical Expression and Reasoning
- A+ CSC236 Introduction to the Theory of Computation
- A+ CSC258 Computer Organization (Hardware)
- A PHY151 Fundamental Physics
- A CSC207 Software Design
- (Current) Data Structure / Introduction to AI (Search & Reasoning)

SKILLS/PROJECTS

Skills:

- Coding: Python, Java, C, LaTex, VB, CSS/HTML(Basic), Verilog
- Tools: GitHub, Linux/Unix, TensorFlow, Android Studio, SQL, CARLA (Basic)
- Knowledge: Machine Learning
- Communicate: English (Fluent), Chinese (Native), Polish (Basic)

Projects:

Android Application Development (Java): Tiles Game (click)

Developing three separate Android games using SQL database and design patterns like MVC, Iterator and Observer.

A game with Al strategies (Python): Stonehenge/SubtractSquare Game (click)

Using object-oriented programming techniques from the Python course with iterative/recursive/minimax AI strategies.

Machine Learning Models (Python): ML (click)

Creating 5 machine learning modes (like KNN, decision tree) follow the online learning source

Personal Website (Html): zhuoyuelyu.github.io (click)

Designing independently using HTML

RESEARCH EXPERIENCE

Chinese Academy of Sciences

Research Assistant in, ADAS simulation team, Institute of Software

Aug 2018 - Sep 2018 Beijing, China

link (click)

- Generated 11,600 deteriorated images of street signs
- Using Python and TensorFlow to retrain the last layer of the Google Inception V3 artificial neural network
- Machine learning: trained the model for 3000 steps, got a classifier with 90+% precision
- Analyzed the data and tried to find the relationship between deterioration rate and identifying accuracy

*CAS is the national academy for the natural sciences of the People's Republic of China. Which is the world's largest research organization, comprising around 60,000 researchers working in 114 institutes.

LEADERSHIP EXPERIENCE

AIESEC Poland

May 2018 - Jun 2018

Voluteer, Quality Education

Katowice, Poland

- Led a team of 11, presented Chinese culture during the "Global Village" activity in Katowice
- Conducted culture-sharing lessons for 6 weeks, with 600+ students from 2 schools, ranging from kindergarten to grade 11 in Bielsko-Biała and Dobieszowice (facebook link)
- Arranged interactive activities: Chinese Papercutting, Traditional Chinese songs with 36 students who had mental disabilities, and can not speak English
- * AIESEC is an international NGO that provides young people with leadership development, crosscultural global internships, and volunteer exchange experiences across the globe.

MISCELLANEOUS

Interests:

- Singing: National Singing Certificate, level 5
- Saxophone: National Saxophone/Piano Certificate, level 2
- Photography: Third prize in 2015 Zhejiang Province Photography Competition
- Radio/Stage host: Vice-president of the School's radio station, (2013-2016)

Awards/Honors:

- 1st place in "就要大声说" 2017 UofT Chinese Speech Contest (Nov 2017)
- 2nd prize in Chinese Mathematical Olympiad, Zhejiang Province (Mar 2016)
- Outstanding Student (优秀共青团员) of Zhejiang Province (Jun 2015)
- President of the Hangzhou City Arts Festival Student Organizing Committee (2014)











Went to Poland as a volunteer, shared Chinese Culture (May 2018 – Jun 2018)