

## EDUCATION

<b>King's College London</b>	<i>London, UK</i>
<i>Master in Advanced Computing</i>   Overall(without Dissertation): 88/100, Distinction	09/2017 – 09/2018
<b>Beijing University of Technology</b>	<i>Beijing, China</i>
<i>Bachelor in Computer Science</i>   GPA: 3.7/4.0	09/2013 – 07/2017

## EXPERIENCE

<b>Microsoft Research Asia</b>	06/2016 – 07/2017
<i>Research Intern at Software Analytics Group</i>	
<ul style="list-style-type: none"> <li>Used several binary classification algorithms, SVM, Random Forest, XGBoost, to predict hardware failures on the cloud platform</li> <li>Transformed binary classification into Learning to Rank problem since online hardware failure prediction is extreme imbalanced problem and applied LambdaRank and LambdaMART for solving the problem</li> <li>Proposed an neural network architecture based on <i>Wide &amp; Deep Learning</i> and deployed a pipeline on Microsoft distributed platform Cosmos for feature extraction and training</li> <li>Improved the pipelines of several projects on time and space complexity</li> </ul>	

## PROJECTS

<b>Auto-Driving using Computational Intelligence</b>	07/2018
<i>King's College Londonn</i>   <i>JavaScript, HTML Canvas, REINFORCEjs</i>	
<ul style="list-style-type: none"> <li>Implemented a Web-based platform to simulate several traffic scenarios, with support for controlling an car by either human player or computer player</li> <li>Trained an agent for driving itself autonomously in different traffic scenes with Deep Q learning and Deterministic Actor-Critic algorithm</li> </ul>	
<b>Shakespeare or Fakespeare</b>	11/2017
<i>King's College London</i>   <i>HTML, Python, Flask, Keras</i>	
<ul style="list-style-type: none"> <li>Designed the UI of Web page for comparing real verses written by Shakespeare and fake verses generated by Char-RNN</li> <li>Implemented the server by Flask to pass fake verses</li> </ul>	
<b>Flappy Bird AI based on Deep Reinforcement Learning</b>	01/2017
<i>Beijing University of Technology</i>   <i>Python, OpenCV, Keras, Tensorflow</i>	
<ul style="list-style-type: none"> <li>Designed the network architecture to map raw pixel input to actions with Tensorflow</li> <li>Implemented Deep Q learning from scratch, with prioritized experience replay</li> </ul>	
<b>Online Demonstration of Famous Paintings of the Palace Museum</b>	03/2016
<i>Beijing University of Technology</i>   <i>JavaScript, HTML</i>	
<ul style="list-style-type: none"> <li>Contributed in one of the famous painting "Twelve Beauties of Price Yong"</li> </ul>	

## HONORS

<b>"Star of Tomorrow" Title</b> (For MSRA interns with outstanding performance)	2017
<b>Brown Medals of ACM-ICPC and CCPC regional contests</b>	2016
<b>First Prize in China University Computer Games Championship(Game of the Amazons)</b>	2015
<b>First Prize in China Undergraduate Mathematical Contest in Modeling</b>	2014

## ACTIVITIES

<b>Co-founder of Programming Club "Source Code"</b>	2014.9 – 2017.1
<i>Beijing University of Technology</i>	
<ul style="list-style-type: none"> <li>Communicated with universities in Beijing and hold lectures on algorithms for freshmen.</li> </ul>	
<b>TA of C-Programming Course</b>	2016.1 – 2016.6
<i>Beijing-Dublin International College, Beijing University of Technology</i>	