Yu Chen
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Personal Statement

Dear Sir or Madam,

I am a PhD student majoring in Computer Science at Rensselaer Polytechnic Institute. I would love to apply for IBM Summer 2016 Research Program which will be an important event in my career life. You will find soon that I have high strength and motivation for the program.

My research interests lie in data mining, machine learning and their applications in the real world. The ideas of extracting knowledge from oceans of data and making machines think like humans are always fascinating me. I hope what I am doing and going to do will push forward the research and applications of these wonderful ideas. I would say I love theories but I am a doer. I like real products which explicitly benefit the world. In some way, IBM Summer research program is one of the best ways for me to start my career dreams. Through my involvement in the internship program I look forward to exploring many aspects of the field of data mining and machine learning as well as their potential applications in the real world.

I have previous experience in data mining and machine learning research. I ever worked with Prof. Tao Zhou who is a leading researcher in Big Data area in China and Director of the Big Data Research Center at UESTC. My research mainly involved with empirical analysis of human behavior patterns in social networks. After that, I went to the University of Michigan-Dearborn and worked with Prof. Jie Shen in the Virtual Engineering Laboratory. My research focused on 3D surface denoising. I designed and implemented a voxel-based fast surface propagation method to remove non-isolated and sharp featured surface outliers. I also have some related projects like recommending email correspondents in online social networks.

I am also a Kaggler. I like engaging in data mining and machine learning competitions and making real AI products. I am quite familiar with Python and data analysis libraries and tools (e.g., Numpy, Scipy, pandas, Matplotlib, scikit-learn, Weka, etc.) I am also fascinated by the beautiful ideas behind deep neural networks. And I have some hands-on experience on them.

I have extremely pleased experience in industry. I ever worked as a web developer in Microoh which is a leading company in online education in China. I took charge of the background computing of LPS 2.0 which was a personalized learning management system. My efficient and responsible work style really impressed my manager and colleagues.

I even have some experience related to signal processing and embedded systems since I majored in Communication Engineering in my undergraduate. This part of knowledge might help me work better in your IOT projects.

I am independent, creative and self-motivated. I like to discuss technologies with people. I look forward to working alongside IBM professionals on amazing projects and pushing forward the process of applying data mining and machine learning in real life.

Thank you for your consideration.

Sincerely yours,

Yu Chen