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**To Whom It May Concern:**

I had the pleasure to be the Ph.D. co-supervisor of Hai-Long NGUYEN from Jan 2009 to Dec 2012 for the thesis topic "Advanced Classification for Streaming Time series and Data Streams".

During this 4-year period, I had the opportunity to see how Hai-Long had matured over the years both academically and professionally.

I recalled that when he first arrived in Singapore from Vietnam in 2009, he struggled with English but now, he is publishing research papers in prominent international conferences and journals. It was certainly not an easy journey for him as he had to settle down in a foreign country and cope with both research work and university coursework.

Hai-Long displayed a tremendous amount of dedication to his work. He demonstrated strong can-do attitude and versatility in picking up data mining as well as in working with me on an industrial project on health monitoring. His programming skill was excellent too as he was able to quickly understand open source codes and modify them for the project.

I had many brainstorming sessions with him on research challenges in the area of data stream mining. He was able to distill the fundamental problems, propose creative solutions and conduct intensive experiments to validate his ideas. Of course, as with any kind of research, he encountered problems and failures, but he always managed to bounce back with renewed vigor and enthusiasm.

It is for these reasons that I offer high recommendations for Hai-Long without reservation for both the industry and postdoctoral appointments. If you have any questions regarding this recommendation, please do not hesitate to contact me at [david.woon@eads.net](mailto:david.woon@eads.net).

Yours faithfully,

Dr David Woon  
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