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To Whom It May Concern,

I am writing in support of the postgraduate application of Mr. Liu Shuo, a promising youth in my eyes. I have guided him in professional study and research for about two years, thus knowing him much.

Shuo impressed me with his activeness in study in my Java and Object-Oriented Design course during his sophomore year. Besides fulfilling all academic tasks with efficiency, he studied *Introduction to Programming in Java* independently and realized most of the codes in the book on his own. Scoring 97 and ranking second in the final exam gave proof of his firm grasp of what I taught in this course.

In light of his academic excellence, I consented to his request to join the Inplus Lab which I headed. In the Blockchain and Smart IoT Team, Shuo remained passionate about experiments, actively attended every internal seminar, and always had hot discussion with doctoral and senior students about professional topics. His paper named “Blockchain–Based Digital Goods Trading Mechanism in Internet of Vehicles: A Stackelberg Game Approach” was collected into *BlockSys 2019: International Conference on Blockchain and Trustworthy Systems*. Three highlights set this paper apart. He established a decentralized digital goods trading scenario to avoid privacy leakage and single point failure, and applied the consortium blockchain to the IoV system to solve the two-army problem and Byzantine failure. Moreover, the trading algorithm of Multi-layer Stackelberg game developed by him effectively facilitated strategy optimization, motivated participants in the hybrid-architected IoV system to join data trading, and increased the system’s handling capacity. I give my thumbs-up to the capacities for divergent, rigorous thinking, information collection and data analysis that he displayed in this research.

Shuo gave me more surprises in my Advanced Software Engineering Training course during his junior year. He did a good job when I asked students to set up a DJI Onboard SDK development environment in Linux and to realize a M600 Pro flight control routine. As a central figure in his team, he mastered knowledge of DJI Onboard SDK development through self-learning and led his team to design a satisfactory Android application capable of acquiring and processing the information captured by UAV. In this process, his team changed the root right and re-downloaded DLL files within a short time after founding that DJI SDK lacked DLL files for some Android models. He contributed greatly to this project by virtue of his team spirit and decent study, hands-on development and problem-solving abilities, which were proved once again when he won the first place in this course’s final evaluation.

Given his all-sided performance, I am sure about his qualification for your program and abilities to stand out in graduate studies. I place high hopes on him and anticipate his greater achievements with your education.

Sincerely,