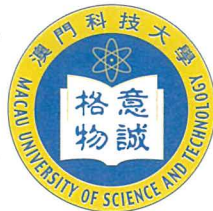




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To whom it may concern,

I am delighted to recommend my student, Heyuan Liu, to study at your school. I am an associate professor at the Macau University of Science and Technology and I am responsible for teaching Heyuan Liu's *Formal Method in Software Specification* course, and I am also Heyuan Liu's supervisor for his *Final Year Project*. I have an excellent impression of him.

The main reason for supporting Heyuan Liu is that I have found him to be unique in my course. He has gained a good understanding of the software engineering through his coursework and discussions. He finished the reading and presentation of a top conference paper (ICSE 2021: AUTOTRAINER: An Automatic DNN Training Problem Detection and Repair System), and he is active in reproducing system code from top journal conferences and fully explained the methods and steps used in the paper. Besides, he also presented the shortcomings of the paper and gave his thoughts. Finally, he also gave a more satisfactory answer to my question. Meanwhile, the course is demanding, as it requires the students to be equipped with a strong academic foundation in mathematical deduction logic. It is his sound foundation in mathematics that guaranteed his excellence in every coursework assignment. In addition, Heyuan could flexibly apply his engineering thinking to the practical challenges in his Final Year Project. I believe Heyuan Liu's solid professional knowledge will provide him with a solid foundation for his future studies and work.

Heyuan Liu is undoubtedly an excellent candidate for postgraduate study at your school. He has the ability to develop software in multiple languages with an object-oriented programming approach such as Java and Python, and use Python to filter data, analyze data and apply it to artificial intelligence. In addition, during his undergraduate studies, I was surprised to find that Heyuan has developed the ability to think independently and creatively, including the ability to work in teams, express himself individually, and successfully figure out problems with his group members in my classes. I look forward to Heyuan Liu using his intelligence to research his area of interest in the future.

Overall, I think Heyuan Liu has all the qualities and intelligence required for postgraduate study. Therefore, I recommend him without reservation. If you have any questions about him, don't hesitate to contact me via the contact details below.

Best regards,

Huang, Rubing

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中科院软件中心

Reference Letter

To Whom it May Concern,

I am writing the letter of recommendation in support of Mr Heyuan Liu's application to the candidacy of your university. I came to know Heyuan in 2020 summer internship program, which focused on intelligence artificial automatic drive. And I am extremely honored to recommend him to study at your esteemed university.

In the program, Heyuan was responsible to programme path planning method of driverless cars based on artificial potential field and present the final report. During the experiment, He kept adjusting the parameters to meet the requirements and analyzing the output results. Though he was the youngest in his team, he wrote most of the code because of his software engineering major. Through contacting with him, I realized that Mr Liu is a quick-learner with innovative ideas and his ideas had been recognized by other members. What's more, he had the capacity of self-thinking, knowledge transfer, meticulous attitude and indomitable quality. In addition, Heyuan had excellent leadership ability and strong team spirit. I think it is necessary for him in the field of research.

In the light of all his outstanding performance during the internship, I believe he has had sufficient prerequisite knowledge ability to undertake the tasks in your university and I also believe that he will shine in your program with his critical thinking and teamwork spirit. I hope that he can make great progress by learning advanced knowledge and combine theory with practice during his studies. I take delight in recommending Heyuan Liu to your university. Should you have any doubt or want any further information about him, please do not hesitate to contact me directly.

Yours sincerely,

Name: Peng Chen

Title: Executive Director

Company|University: Software Engineering Center Chinese Academy of Science

Tel: 132-2156-9063

Email: pchen@sec.ac.cn

Add: 4S 4th St. ZhongGuan Cun Beijing, China

A handwritten signature in black ink, consisting of stylized Chinese characters followed by the English name 'peng chen' in a cursive script.