To Whom It May Concern:

I am writing to formally recommend Ms. Zahra Amini for admission to your Master's program. I have had the opportunity to observe her academic and professional development from February 2017 through September 2020. During these years, she established herself as a diligent, inquisitive, and highly active student who possesses a profound aptitude for algorithmic thinking. My initial interaction with her was during the Technical English course in early 2017, though her technical capabilities were most prominently displayed later in my "Algorithm Design" course and during her role as my Teaching Assistant.

In the **Technical English course**, Ms. Amini was particularly notable not only for her general knowledge of Computer Engineering but also for her extensive command of specialized vocabulary. She was a constant and dynamic presence in our in-person sessions. In contrast to the passive attendance common in many courses, she maintained a rigorous habit of pre-studying the material. This proactive approach not only elevated the quality of her own contributions but also set a high benchmark that fostered a healthy competitive atmosphere among her peers. Furthermore, she frequently brought English academic journals to class, raising insightful questions about the precise usage of technical terminology. This habit significantly accelerated her progress and demonstrated a level of dedication rare among undergraduates.

When she took my **Algorithm Design course** in February 2018, Ms. Amini demonstrated an exceptional capacity to translate theoretical concepts into efficient, working code. Her project work was particularly impressive. For example, regarding the "Strassen's Matrix Multiplication" assignment, she successfully implemented a divide-and-conquer approach that outperformed classical methods on dense matrices. Similarly, for the "Closest Pair of Points" problem, she handled boundary cases with high efficiency. I also noted her attention to resource management; in the "Levenshtein Edit Distance" project, she identified row dependencies to optimize memory usage, which is critical for processing long text strings. Additionally, she utilized priority queues in the "Huffman Coding" project to optimize tree construction. Perhaps her most significant achievement in this course was tackling the Traveling Salesperson Problem (TSP). Rather than retreating from this NP-Hard problem, she implemented a Branch and Bound method paired with a well-designed heuristic function. This allowed her to eliminate non-optimal search branches effectively, reducing execution time drastically compared to a brute-force search.

Based on her technical mastery, Ms. Amini served as a Teaching Assistant (TA) for my Algorithm Design course for two consecutive years (September 2018 – September 2020). Her contribution in this role was substantial. She took the lead in mentoring students on advanced topics like Dynamic Programming and Graph Theory, helping them bridge the gap between abstract theory and practical C++ implementation. When evaluating student projects, she looked beyond simple output verification, focusing instead on code quality and detailed complexity analysis. She consistently encouraged students to write clean, maintainable code. Moreover, during the transition to hybrid learning in 2020, she adapted her teaching methods seamlessly to online platforms,

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دورنگار : ۰۳۴-۴۱۵۲۲۱۰۰
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ensuring that student interaction remained effective. Her commitment to managing problem-solving sessions and administering oral exams was exemplary.

Ms. Amini combines strong theoretical knowledge with practical skills in Python and C++, alongside a proven ability to teach and work within a team. Her perseverance, high energy, and passion for education distinguish her from her peers. I have no reservations in recommending her for your graduate program, as I am confident she will succeed in her future academic endeavors.

Sincerely,

Ahmad Pouramini,
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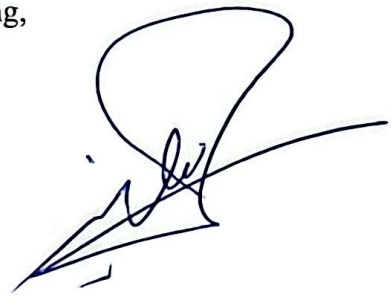

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