

# Alireza F.Moghaddam

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Dear Matteo Magnani,

I was really excited to learn about Teaching assistant position at Uppsala University from its Website, because this is exactly the perfect role for me to use my knowledge effectively. With my background in IT services and a relevant Teaching experience, I believe I am the ideal candidate for this position. I will further elaborate on my background.

To briefly introduce myself, my name is Alireza Faghihi Moghaddam, and I am Master's student at Uppsala University, pursuing a degree in Computer Science with a specialization in Software Engineering and Machine Learning. My academic journey, combined with hands-on technical experiences, has equipped me with the skills needed to foster student success.

During my undergraduate years, I achieved strong academic results in my studies , including Complete Marks in Data structures Algorithm Design, and Artificial Intelligence, and Computer networks courses. My academic performance gave me the opportunity to be selected as the teaching assistant in Compiler design course at IAUCTB, where I provided students with assistant in their assignments, followed up on their project and assisted in assessing their learnings. Along side with my studies, I was drawn into the world of Cloud Computing and Computer networks where I started exploring the concept of edge computing. Because of my interest in the topic of edge device communication, I **presented my findings in a paper** titled "SWOT Analysis of Edge Computing Applications Compared to Cloud Computing " at an International conference organized by the Institution of Engineering and Technology (IET).

In addition, due to my strong academic performance during my master studies, I was selected from a large pool of candidates to serve as a Teaching Assistant for the *Självständigt arbete: IT och STS-IT* course at Uppsala University. In this role, I was responsible for supporting students in the development of their course assignments and final projects, provided hands-on supervision, and conducted scrum meetings that included presentations and follow-up sessions. I also delivered constructive feedback to help students stay aligned with the course objectives and the academic standards expected of their final bachelor-level projects. My experiences as teaching assistant have provided me with a strong communication skills, teamwork, time management, and problem solving which I believe aligns with the roles requirements.

During my Master's studies, I completed courses in Software Testing, Advanced Software Design, Secure Systems, and Data Engineering, where I implemented unit and integration testing. I conducted security testing for vulnerabilities like XSS and SQL injection to ensure system robustness. Beyond testing, I worked with Docker, PySpark, and Hadoop to setup remote Cloud environment to manage large datasets and develop event-driven automation. Using Hadoop and Spark, I were able to built scalable batch processing systems, applying advanced data visualization techniques in Jupyter Notebook to transform complex analytical findings into clear, interpretable insights, enhancing the effectiveness of presentations on 10M+ COVID-19 vaccination data points.

Furthermore, I have worked at Solar Edition, a Norwegian NGO which works on expanding the use of renewable energies globally. I have had the privilege of serving as an Remote Developer and Consultant. Within this role, I delved into various technical intricacies, addressing backend development requirements, Working with author team to conduct SEO strategies, and undertaking website maintenance through Backend and Frontend programming with multiple technologies such as (PHP, JavaScript, React, and .NET).

I believe both my Academic and Professional Background Aligns with the role and I can have a positive contribution in different courses including Data, ethics and law, Programming , Artificial intelligence, and... for 90 hours or higher. while my attached resume provides an outline of my abilities, I would welcome the opportunity to further discuss how I can contribute to the position at Uppsala University. Please let me know if you have additional questions. You can reach me at alireza.faghihi-moghaddam.3622@student.uu.se or +46 737428301.

Thank you for your time and consideration.