

Dear,

I have been encountering lots of different fields in my studies of theoretical physics and my work. I was always interested in aspects of optimisation and machine learning, which I spent considerable time on in my bachelor doing machine learning and specially artificial neural network courses on coursera, where I encountered python packages such as tensorflow and Keras. Then in my master degree I focused on quantum computing and algorithms in general, which is basically probabilistic computing. And I took an artificial neural network course at university, where we covered all types of models such as MLPs, RNNs, CNNs and libraries like Panda, which I compared with colleges and professors over gitlab. In my free time I always spent some time on machine learning, where I and my friends solved coursera courses together or I built and compared AI solutions for number recognition. Currently I am working on Pneumonia detection from rays, where my model is based on a CNN structure.

Furthermore in my master degree I worked on a computer cluster, which required linux commands to navigate and execute programs.

I furthermore wrote a paper in quantum optimisation for a computer vision problem called bundle-adjustment. My main programming skills are in python, as python was the main programming language in university, but I had contact with R and Stan code. I used to work with cleaning and transforming data in my education at Lund University. In my research at Chalmers I focused on quantum algorithms and in specific Monte Carlo sampling for measurements for quantum computers.

I think I have good foundations in linear algebra, probabilistic calculations, optimisation and programming. Furthermore, I have gained problem solving skills in various areas. Therefore I can learn quickly any similar tasks in the field of linear algebra.

With my background I think it is obvious, but I do like to discover and learn new things and work interdisciplinary, applying scientific tools to real world problems. I believe that in my education and work I learned to think critically and find solutions to difficult problems.

Lastly, I have worked and discussed with leading researchers in quantum computing. This knowledge may be of future interest for the organization.