Edvin **Sidebo**

PhD experimental particle physics

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Physicist/Software Developer   *16 januari 2019*

Dear Combient,

Nyckelord:

kollaboration (erfarenhet) - dela med sig, lära sig av varandra

dataanalys och avancerade statistiska modeller – statistiskt tänkande

programmering och versionshantering

digitalisering

problemlösning: det finns sällan given väg/lösning.

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Dear Combient,

I was very inspired by Rahman Amandius when he came to visit my workplace to talk about Combient and how to transition from academia to industrial data science. Combient seems to me like a place in which one can thrive personally while at the same time providing novel solutions with great value for customers. I also liked to hear about the collaborative spirit which appear to be a key component in the Combient ecosystem.

I recently graduated from the Royal Institute of Technology (KTH) in Stockholm where I did research as part of a large international collaboration based at the particle physics laboratory CERN outside Geneva. My main project concerned a measurement of the Higgs particle and largely circled around analysing the large dataset of proton collisions, and solving problems arising in the process of understanding the data. In this work I have a developed a strong analytical skill set and a creative mind. For two years I led the effort to estimate one particular source of contamination of the data, the estimation of which was crucial to reach publication. Advanced statistical methods are used to extract the most out of the data. However, I am mostly glad for the *statistical thinking* or attitude I feel I have developed–in my opinion, understanding data relies on having the right mindset, more so than being able to apply a series of methods from a recipe. This way of thinking is useful in all situations in which one deals with data.

I have strong skills in Python and C++, especially the latter which was the primary language used during my PhD. I am always eager to learn new things though, which has often been the case in an environment where it is not obvious which solution is the best. For example, I learned Docker when given the job to develop a laboration exercise for teaching purposes. I realised such a solution would be a neat way to eliminate the need for software installation on the student side.

I hope that these skills and my mindset is what you are looking for at Combient, and that I can come to an interview to present myself and learn more about you and the position.

Best regards, Edvin

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