



August 18, 2017

Dear Sir/Madam,

Guillaume Beaud (28.12.1991) was employed by Philip Morris International in Lausanne Switzerland as an intern under my supervision from February-August 2017. He was part of the Infrastructure Architecture team, which is responsible for defining global strategies and standards for the management of computing infrastructure at PMI. His missions were to:

1. Explore technologies available in the Amazon Web Services public cloud and propose strategies to leverage these technologies to add business value to our company.
2. Implement selected strategies to deliver solutions to be further used by the operations teams in Argentina, Poland and Indonesia.

During his internship, Guillaume completed the following tasks:

- Explored the existing tools available in AWS
- Designed various automation strategies in line with the business requirements to reduce management costs and improve standardization and scalability
- Brought a DevOps approach to our cloud management by advocating the use of technologies such as infrastructure as code to streamline resource deployment and enforce standardization
- Designed a solution to integrate the cloud within our existing service management environment (Service Now)
- Worked with both the Architecture team and the Operations team to design coherent scalable solutions
- Delivered efficient automation using Python/Boto3 in AWS Lambda
- Fully automated complex cloud systems management in AWS

Guillaume has been a very quick learner; he discovered AWS for the first time in February - by April he had already leveraged some of the most advanced features of this complex cloud platform and he obtained AWS certification in June. He is a very sharp-minded engineer with strong business awareness, and demonstrated an ability to build elegant, scalable and efficient solutions while carefully managing risk. Guillaume delivered work of outstanding quality and I believe he will be an extremely valuable resource in any project he is assigned to.

Yours faithfully,

Jonathan Rodin PhD – Manager Infrastructure Architecture