



2 August 2018

To Whom It May Concern:

Re: Mr Sagar Biswas

This letter is to certify that Mr. Sagar Biswas served as an undergraduate student intern in my research laboratory at the Faculty of Education University of Hong Kong from 1 June 2018 to 2 August 2018.

During Mr Biswas's internship, he was working as a member of the research team on the project titled "*An Open Learning Design, Data Analytics and Visualization Framework for e-Learning*". This is a joint institutional project led by researchers from the Hong Kong University of Science and Technology (HKUST, lead institution), The University of Hong Kong (HKU) and Massachusetts Institute of Technology (MIT). The aim of the joint project is to serve MOOC users (instructors, instructional designers, institutional curriculum leaders and learning scientists) by developing an open framework that integrates three major e-learning technology components: learning and assessment design models and tools, analytics methods, and visualization interfaces.

During the internship period, Mr Biswas's tasks were related to (1) implementing a Node.js app to convert the output (in JSON) of Learning Design Studio (LDS^{HE}), which was developed to support educators in higher education to design their courses, to backup file (in MBZ) of Moodle, which is an open source learning management systems; (2) documenting a MOOC course on introductory Python programming; and (3) understanding the database structure from the MIT MOOC Learner Project to be able to conduct learning analytics operations on the data to understand students' learning behaviour.

Throughout the internship period, Mr Biswas has demonstrated himself to be a very conscientious and respectful member of the team. He is able to communicate and work with a multidisciplinary team comprising education researchers and computer engineering experts to accomplish the designated tasks. He is very self-motivated, having prepared himself well by reading the relevant documentations before his arrival. He is also able to work independently with minimal supervision.

Having observed Mr Biswas's two month internship in my research laboratory, I am impressed by his technical skills, ability to learn, as well as his social skills, attitude and ability to work with people from diverse backgrounds. I would strongly recommend Mr Biswas to positions that require these fine qualities.

Sincerely

Nancy Law
Professor, Faculty of Education
Deputy Director, Centre for Information Technology in Education