Integrating DevOps Into the Web Development Curriculum with AWS

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Currently within IUPUI's Computer and Information Technology curriculum, students are responsible for hosting content on three main servers throughout the course of the degree program. Not only have these three main servers been preconfigured for the students but also they are typically reset at the conclusion of each semester resulting in lost files if the student has not saved their work locally. The overall goal of this research project is to study the benefits and feasibility of implementing a unified hosting service through the Amazon Web Services Educate program within the CIT curriculum. By implementing a unified hosting service, students will be provided with an experiential learning opportunity to manage their own AWS account from the 100 level courses throughout their entire undergraduate program. Ultimately, AWS has the ability to enable students on high-performance computing, prepare students for careers in cloud computing, and integrate a consistent platform into a variety of courses.

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